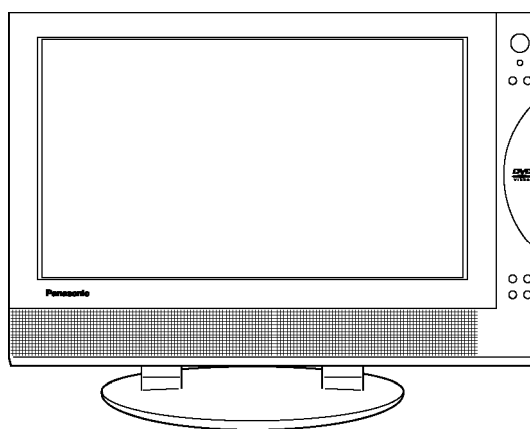


ORDER NO. ITD0209027C2

Service Manual

Combination 15.2" Diagonal LCD TV/DVD Player

TX-15LV1
LH5 Chassis



SPECIFICATIONS

Specifications

Power Source

AC 100-240V, 50/60Hz

Power Consumption

Average use: 52W

Stand-by condition: 3.0 W

TV set: DC 15 V 2.8 A MAX.

LCD

385 mm

16:9 aspect ratio LCD panel

Screen Size

(W) 336 mm (H) 189 mm

Receiving System

PAL I, PAL-525/60

M. NTSC


NTSC (AV only)

Receiving Channels

UHF E21-E59

Sound**Speaker**

Tweeter (4× 8 cm 2pcs, 8 )

Woofer (1× 5 cm, 8 )

Audio Output

6.5W (2.0W+2.0W+2.5W] (woofer)), 10% THD

Headphones

M3 (3.5 mm) Jack× 1

8  impedance

Features

DVD player, Aero-Hammer  Woofer System
(2 Way 3 Speaker System)

Disc Played

DVD-VIDEO disc

12cm single-sided, single-layer

12cm single-sided, dual-layer

12cm double-sided, single-layer

8cm single-sided, single-layer

8cm single-sided, dual-layer











8cm double-sided, single-layer

COMPACT disc (CD-DA, VIDEO CD)

12cm disc

8cm disc

Connection Terminals

AV1 IN	Video (21 pin)	1V p-p 75 
	Audio (21 pin)	500mV rms 10k 
	RGB (21 pin)	
AV1 OUT	Video (21 pin)	1V p-p 75 
	Audio (21 pin)	500mV rms 1k 
AV2 IN	S-Video IN (4 pin)	Y: 1V p-p 75 
		C: 0.3V p-p 75 
	Audio (RCA×2)	500mV rms 10k 
	Video (RCA×1)	1V p-p 75 
DVD OUT	S-Video OUT (4 pin)	Y: 1V p-p 75 
		C: 0.3V p-p 75 
AUDIO L-R/ DIGITAL AUDIO (STEREO M3 Jack) 1.3 Vrms (1 kHz, 0 dB)/ BITSTREAM, Linear PCM		

Operating Conditions

Temperature

42°F - 95°F(5°C - 35°C)

Humidity

20% - 80% (non-condensing)

Dimensions (W x H x D)

Including TV Stand

424 mm× 319 mm× 180 mm

TV Set Only

424 mm× 283 mm× 80 mm

Weight (Mass)

6.0 kg Net

DVD OUT

Audio output

Output level

1.3 Vrms (1 kHz, 0 dB)

Output terminal

Mixed output (L/R)

RCA (1 system), AV1/AV2

5.1 ch discrete output Optical terminal

Audio signal output characteristics

(1) Frequency response

DVD (linear audio)

4 Hz - 22 kHz (48 kHz sampling)

4 Hz - 44 kHz (96 kHz sampling)

CD audio

115 dB (EIAJ)

(2) S/N ratio

CD audio: 115 dB (EIAJ)

(3) Dynamic range

DVD (linear audio) 103 dB

CD audio 99dB (EIAJ)

(4) Total harmonic distortion

CD audio 0.002% (EIAJ)

Digital audio output

Optical digital output

Optical terminal

Pickup

Wave length: 665 nm

Laser power

CLASS 1

Note:

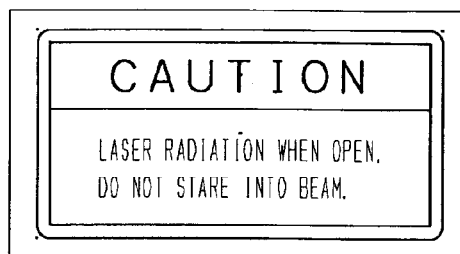
Design and Specifications are subject to change without notice.

Weight and Dimensions shown are approximate.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



A person other than qualified serviceman is not allowed to disassemble or service this DVD units. Usual serviceman do not need disassemble or service this drive unit, because the drive unit is one of the replaceable service parts.

In order to remind safety precaution to serviceman, warning label is provided as above label.

Panasonic®

1. Safety Precautions

1.1. General Guidelines

- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
- 3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

1.2. Touch-Current Check

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
- 2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**

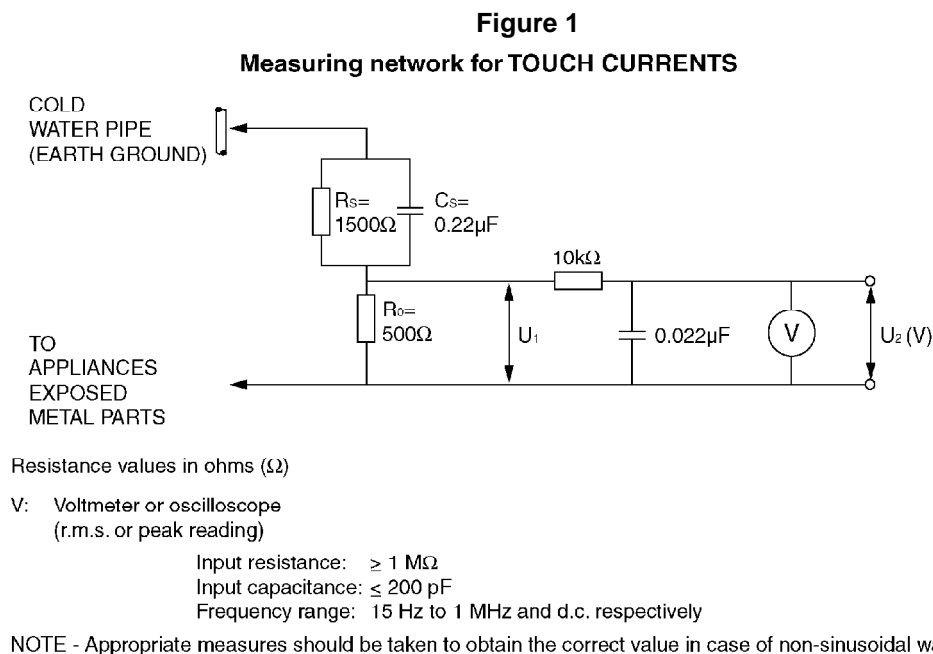
3. Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reserve the AC plug in the AC outlet and repeat each of the above measure.
6. The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:
 For a. c.: $U_1 = 35 \text{ V}$ (peak) and $U_2 = 0.35 \text{ V}$ (peak);
 For d. c.: $U_1 = 1.0 \text{ V}$,

Note:

The limit value of $U_2 = 0.35 \text{ V}$ (peak) for a. c. and $U_1 = 1.0 \text{ V}$ for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.

The limit value $U_1 = 35 \text{ V}$ (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.

7. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.



2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.


Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing

together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

Caution

This unit utilizes a class I laser. Invisible laser radiation is emitted from the optical pickup lens when the unit is turned on:

1. Do not look directly into the pickup lens.
2. Do not use optical instruments to look at the pickup lens.
3. Do not adjust the preset variable resistor on the optical pickup.
4. Do not disassemble the optical pickup unit.
5. If the optical pickup is replaced, use the manufacturer's specified replacement pickup only.
6. Use of control or adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure.

4. Handling Precautions For Traverse Deck

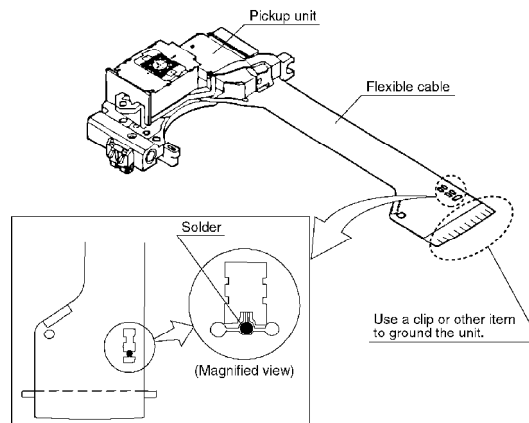
The laser diode in the optical pickup may break down due to potential difference caused by static electricity of clothes or human body.

So be careful of electrostatic break down during repair of the optical pickup.

4.1. Handling of optical pickup

1. Do not subject the optical pickup to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC Board). / When removing or connecting the short pin, finish the job in as short times as possible.
3. Be careful not to apply excessive stress to the flexible board (FPC Board).

4. Do not turn the variable resistor (Laser power adjustment).

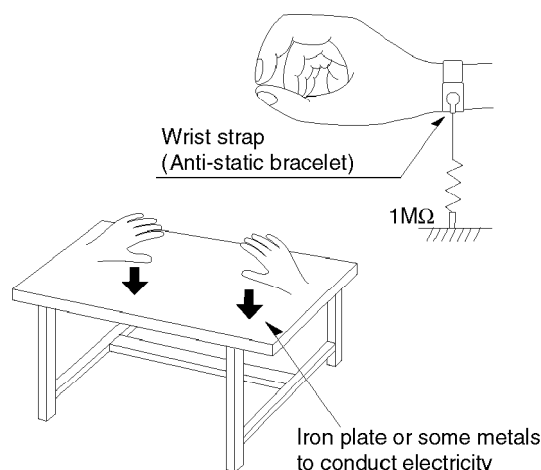


4.2. Grounding for electrostatic breakdown prevention

1. Human body grounding / Use the antistatic wrist strap to discharge the static electricity from your body.
2. Work table grounding / Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.

Caution

The static electricity of your clothes will not be grounded through the wrist strap. So take care not to let your clothes touch the optical pickup.



5. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues.

For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



stamped on the back of PCB.

Caution

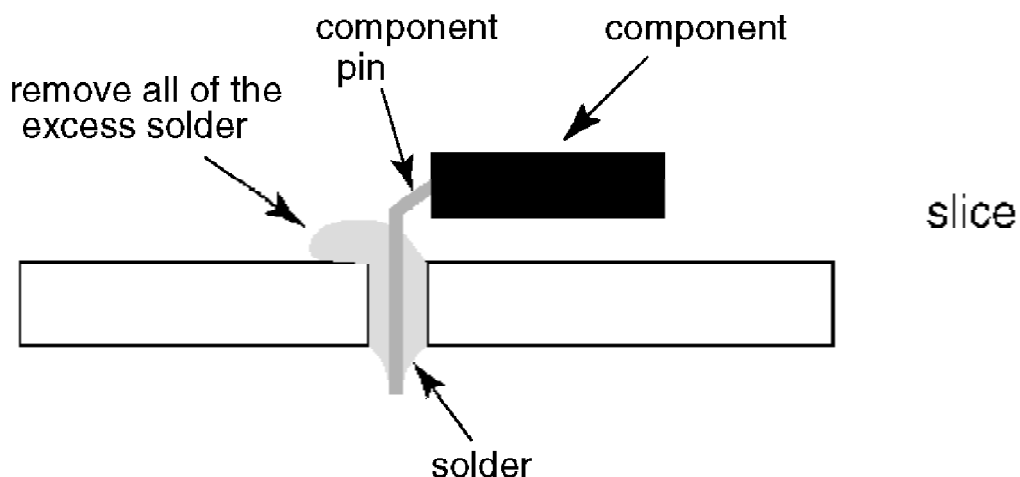
- Pb free solder has a higher melting point than standard solder.

Typically the melting point is 50 ~ 70 ~F (30~40~C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 ~F (370 ± 10 ~C).

- Pb free solder will tend to splash when heated too high (about 1100 ~F or 600~C).

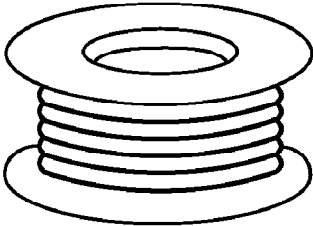
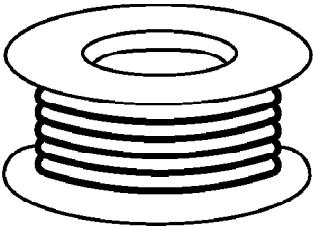
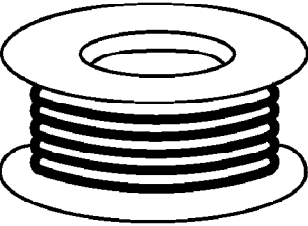
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)




Suggested Pb free solder

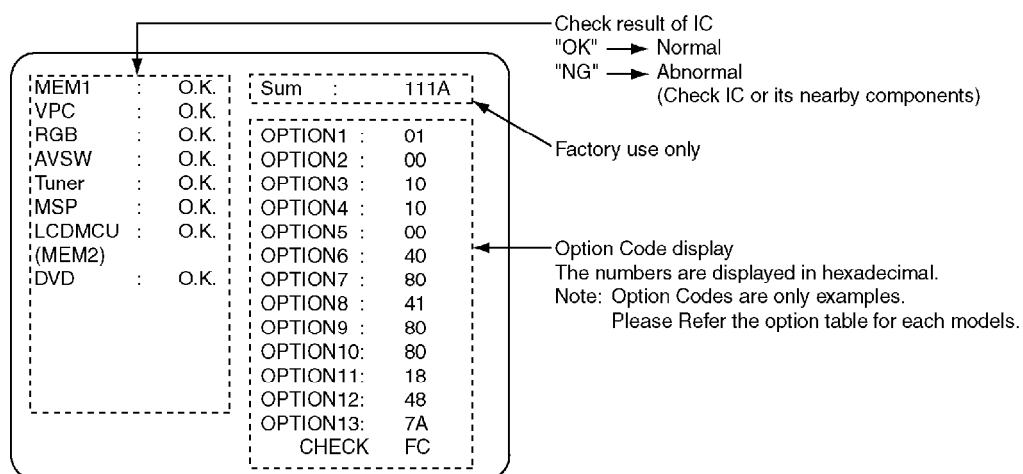
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

6. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

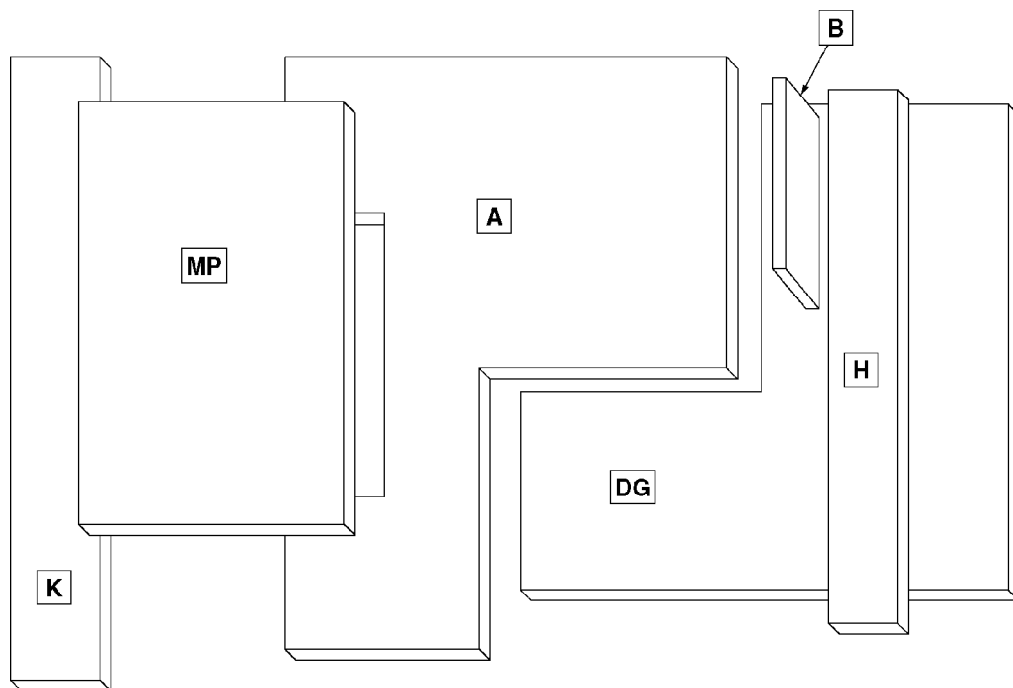
2. To get into the Self -Check mode press the Down [] button on the customer controls at the front of the set, at the same time pressing the [Recall button] on the remote control, and the screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K."

Display	Ref. No.	Description	P.C.B.
MEM1	IC1004	EEPROM	DG-Board
VPC	IC9001	Video Processor	DG-Board
RGB	IC9505	RGB Processor	DG-Board
AVSW	IC4002	AV switch	A-Board
Tuner	TNR001	Tuner	B-Board
MSP	IC2503	Multi Sound Processor	A-Board
LCDMCU	IC3002	LCD MCU	DG-Board
DVD		DVD Unit	

7. Chassis Board Layout

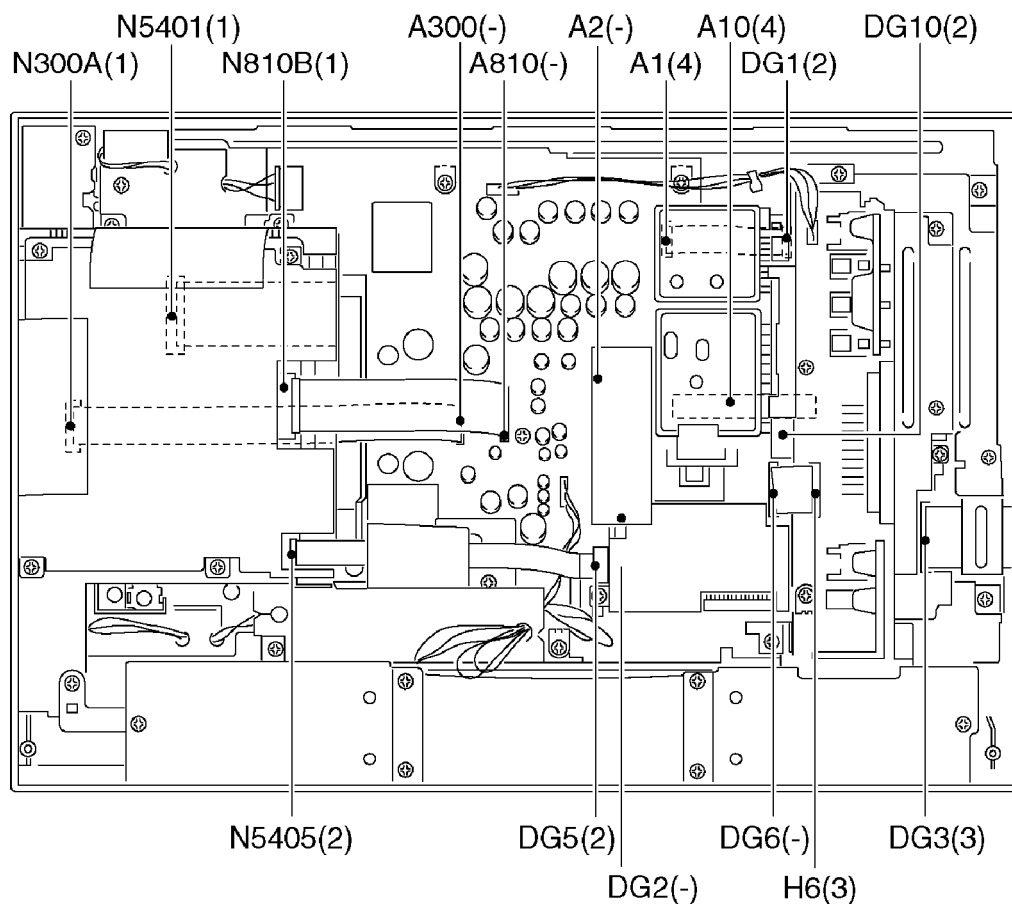


Board Name	Function
A-Board	Main (Audio, Power Inverter)
B-Board	Tuner
H-Board	Terminal
K-Board	SW
DG-Board	CG2M, PIXEL Converter
MP-Board	DVD CPU, MPEG Decoder

8. Before servicing

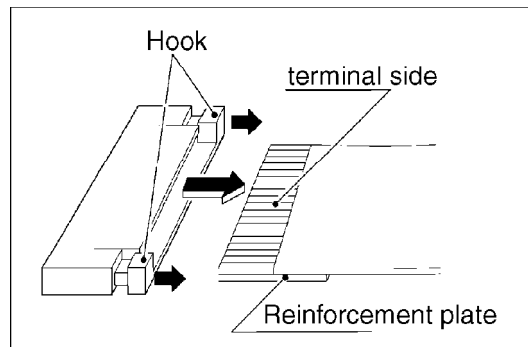
8.1. Kind and location of the flexible cable

Ref No.	Connector type	Pin	Board	Opposite Ref No.
N5401	1	45 Pin	MP Board	DVD Mecha
N810B	1	20 Pin	MP Board	A810
N5405	2	20 Pin	MP Board	DG5
H6	4	36 Pin	H Board	DG6
N300A	1	20 Pin	K Board	A300
DG1	2	20 Pin	DG Board	A1
DG6	4	36 Pin	DG Board	H6
DG2	5	22 Pin	DG Board	A2
DG5	2	20 Pin	DG Board	N5405
DG3	3	50 Pin	DG Board	LCD Panel
A300	-	20 Pin	A Board	N300A
A2	-	22 Pin	A Board	DG2
A1	-	20 Pin	A Board	DG1
A810	-	20 Pin	A Board	N810B
A10	4	12 Pin	A Board	DG10
DG10	2	12 Pin	DG Board	A10

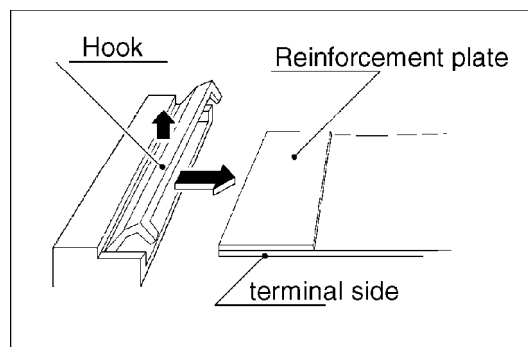


8.2. How to remove the connector

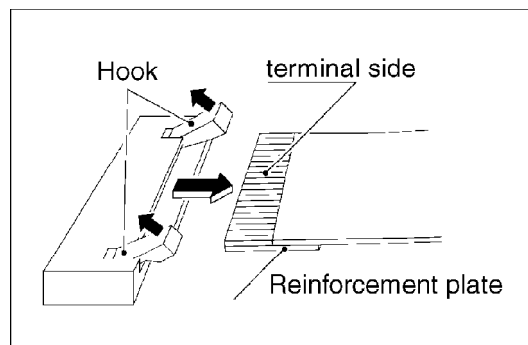
Connector type1



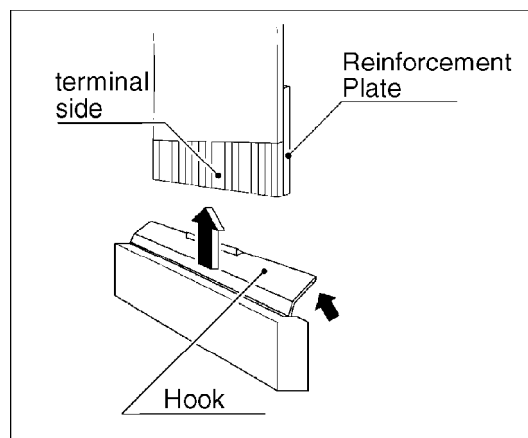
Connector type2



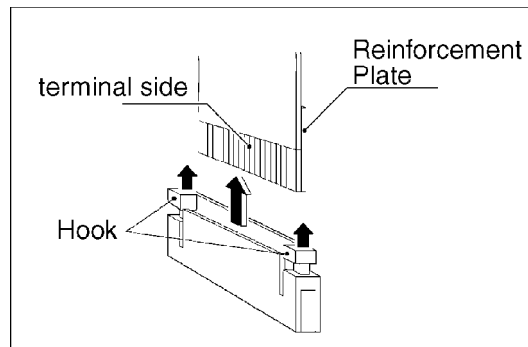
Connector type3



Connector type4



Connector type5



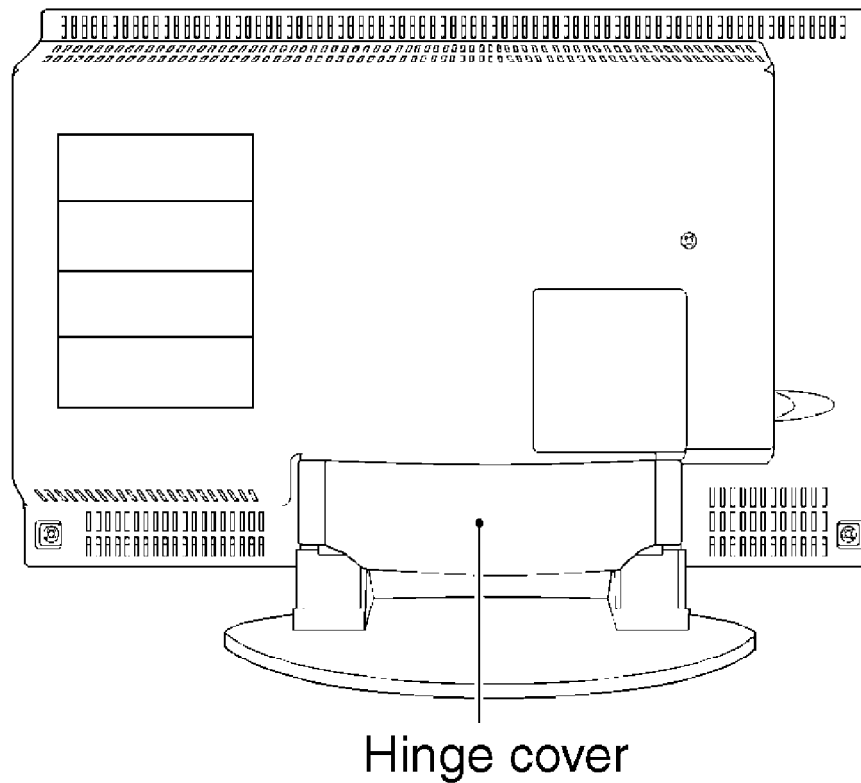
9. When the disc cannot eject

- When the disc cannot eject even if the eject button on main unit or on remote controller is pressed.

9.1. How to eject the disc

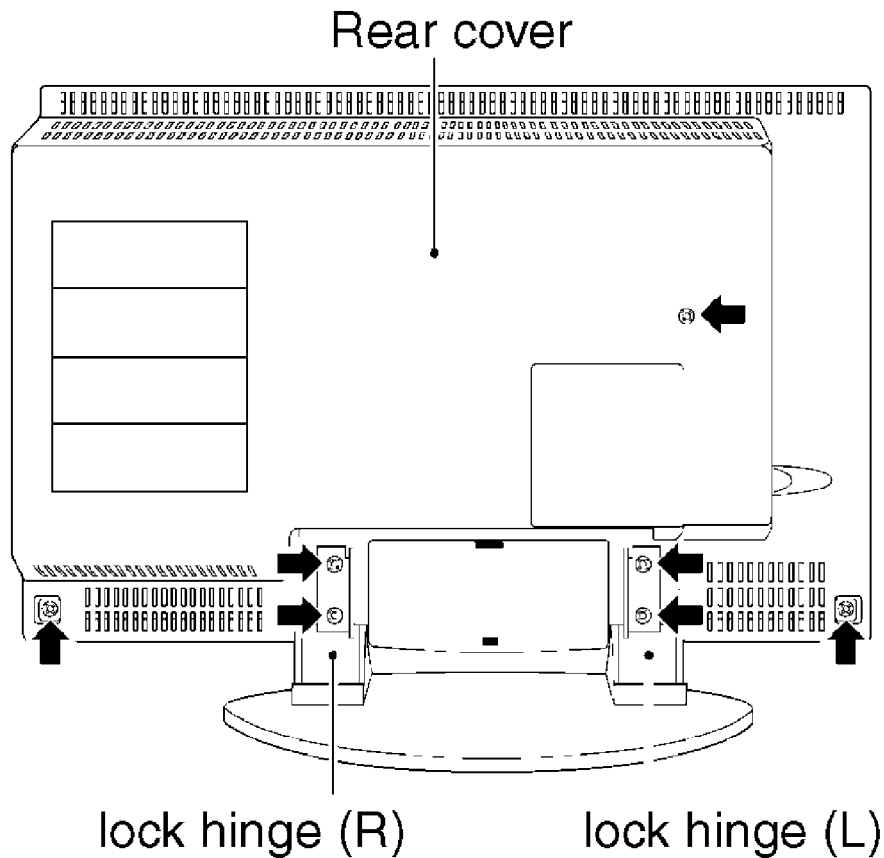
<Remove the DVD unit>

1. Remove the hinge cover



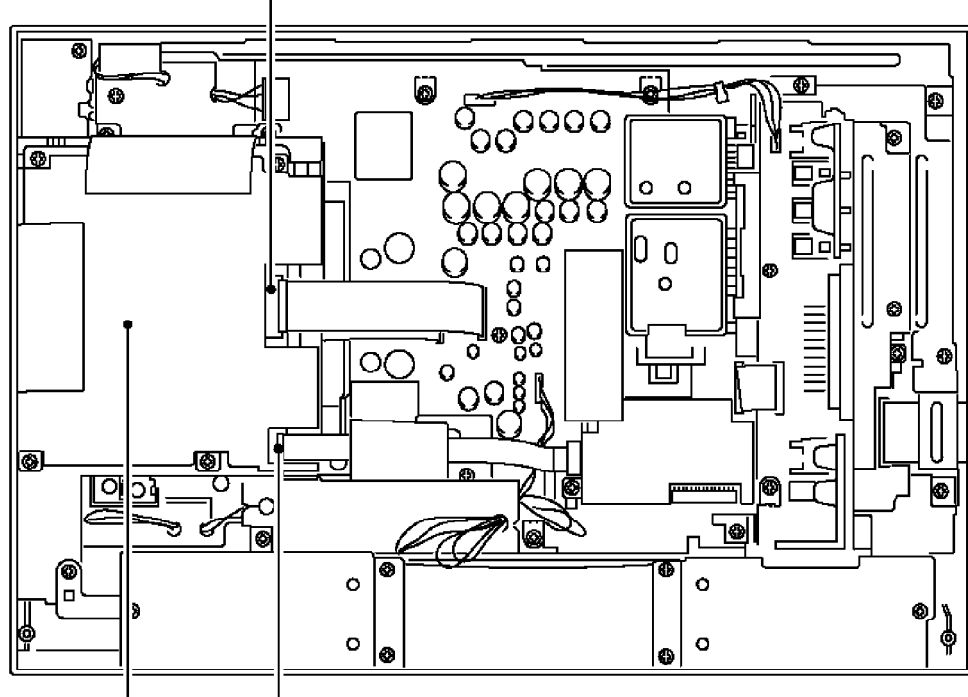
2. Remove the screws (XTV3+16GFZ, 3 pcs) fixing the rear cover.

**Remove the screws (XYN4+F10, 4 pcs) fixing the lock hinge.
Remove the rear cover.**



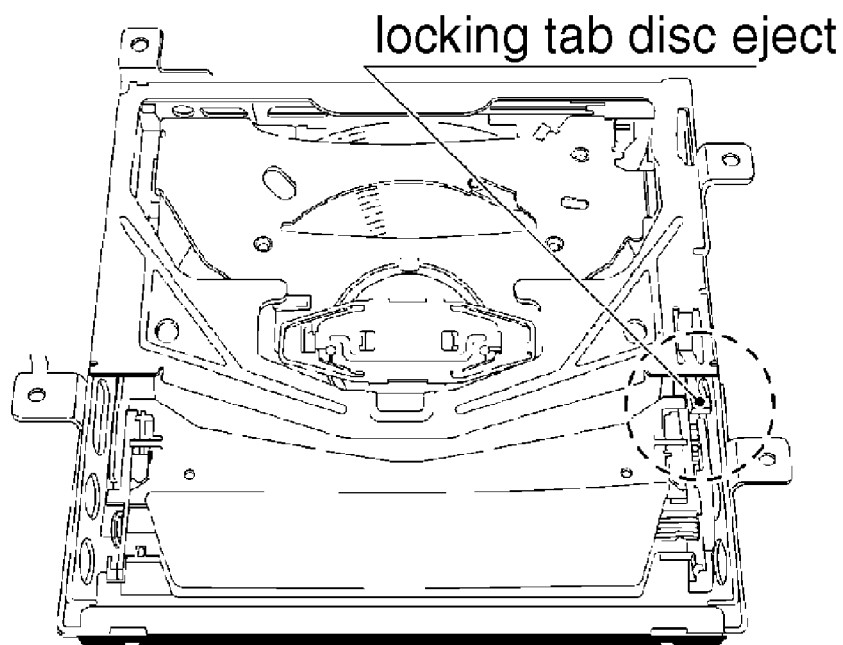
- 3. Remove the flexible cables (N810B (20P), N5405 (20P)).
Remove the screws (XTW3+6T, 4 pcs) fixing the DVD unit.
Remove the DVD unit.**

N810B(20P)



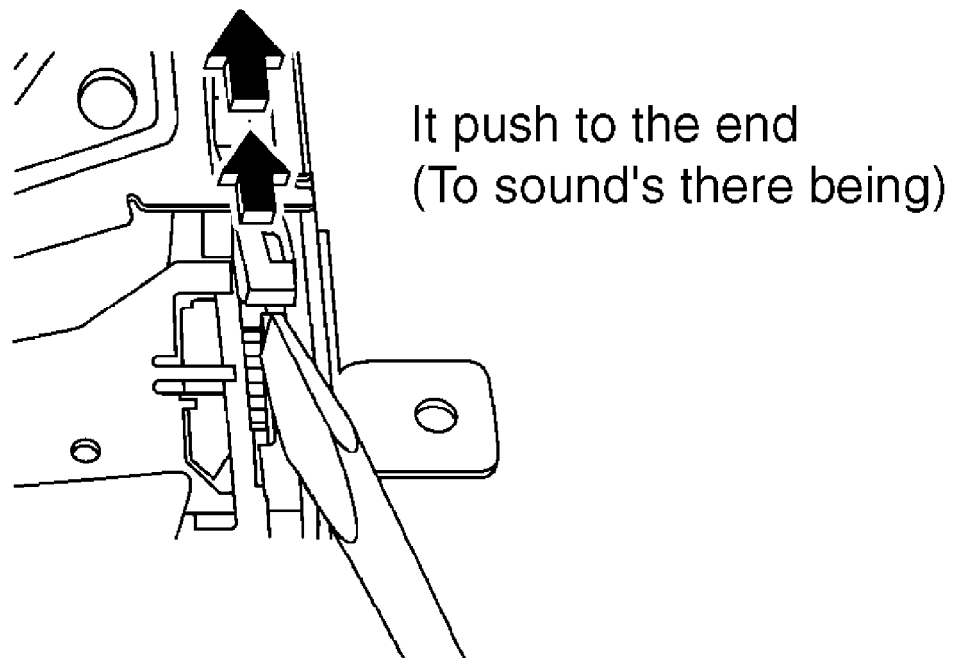
DVD Unit N5405(20P)

4. It makes a taken DVD unit the reverse like the right figure.

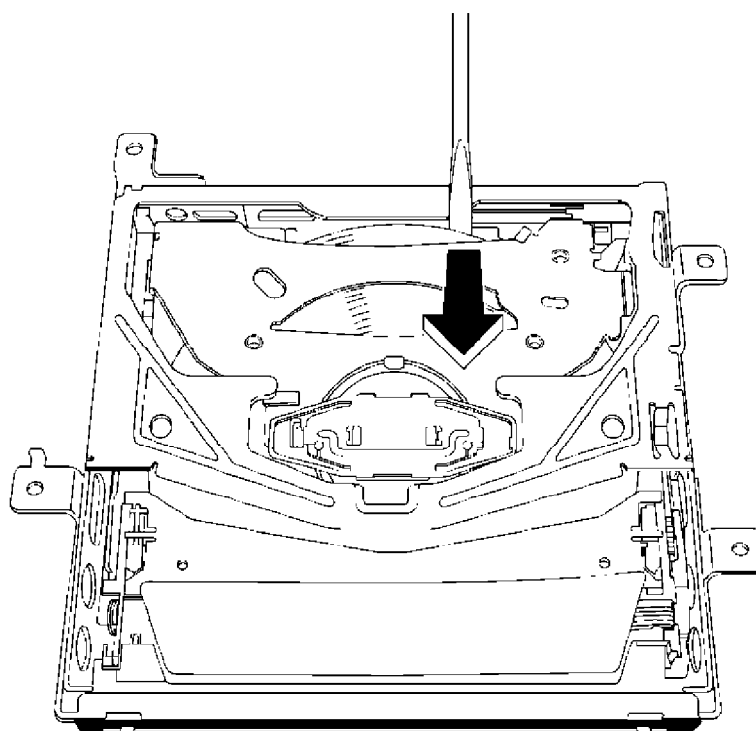


5. The disc rises when pushing once and moreover pushing a locking tab for the disk taking-out to the direction of the arrow

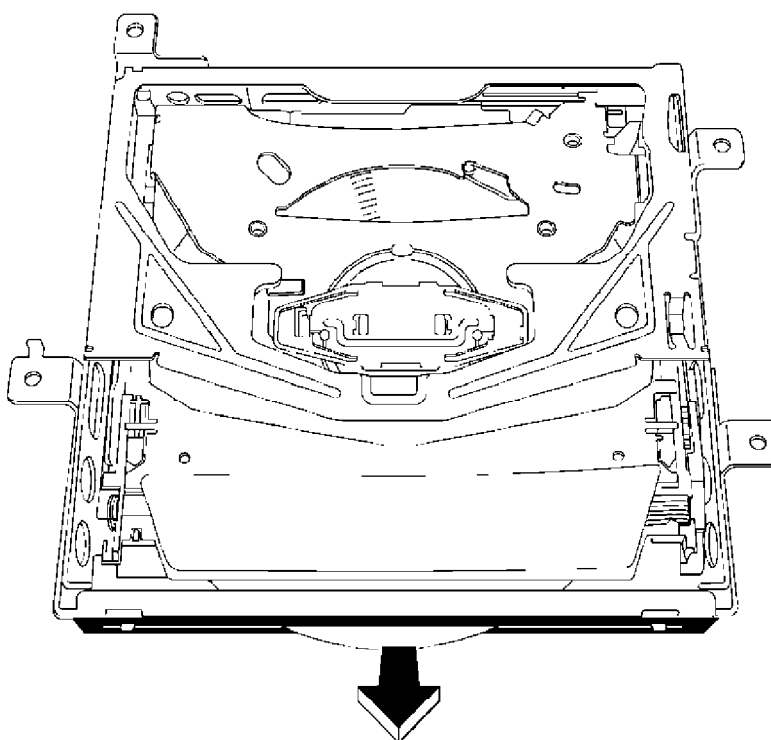
with the thin flathead screwdriver at the end and so on until it bumps.



6. IT presses a disk to the direction of the arrow with the flathead screwdriver.



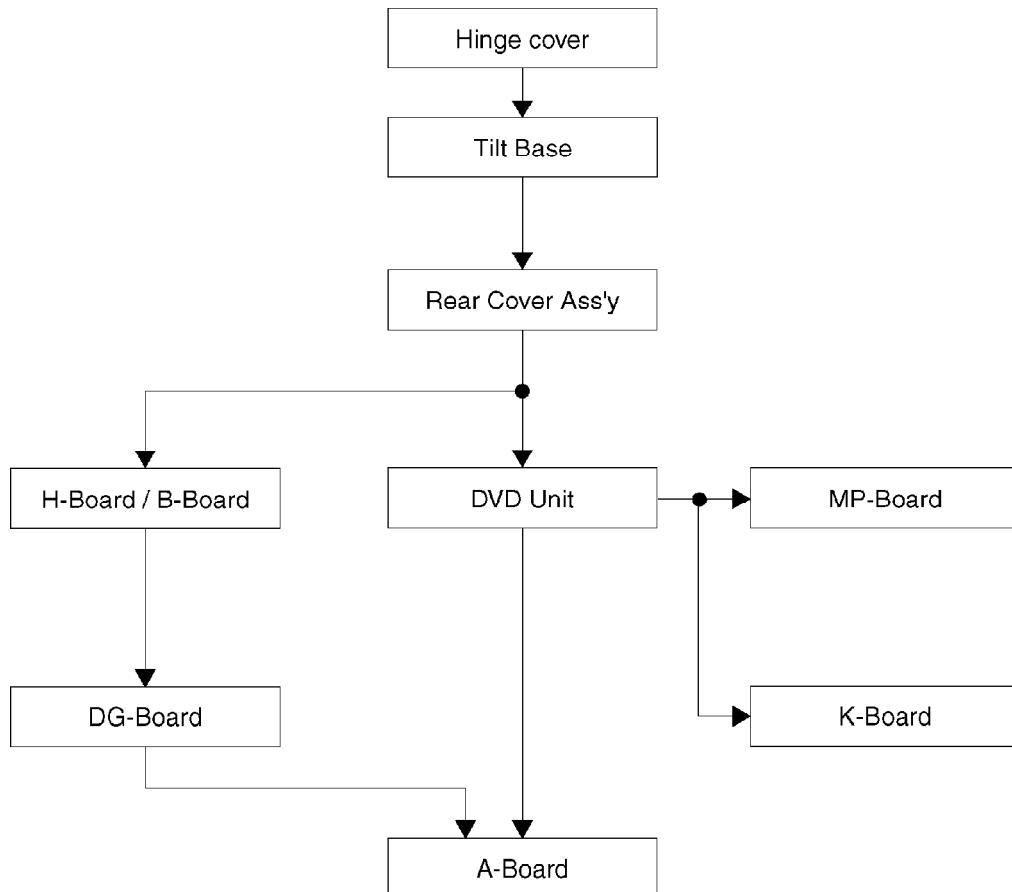
7. So as not to damage a disc, it take out.



10. Disassembly for Service

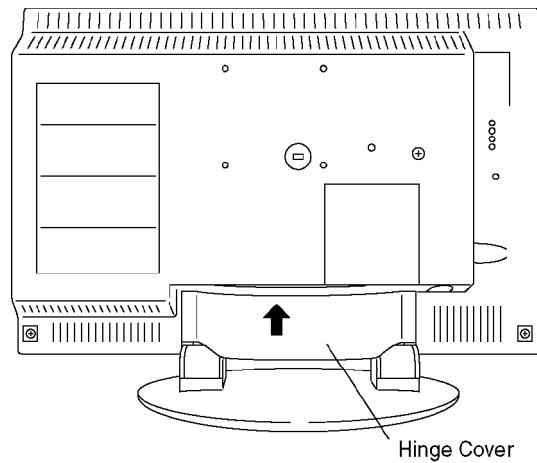
This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

10.1. Disassembly Flowchart



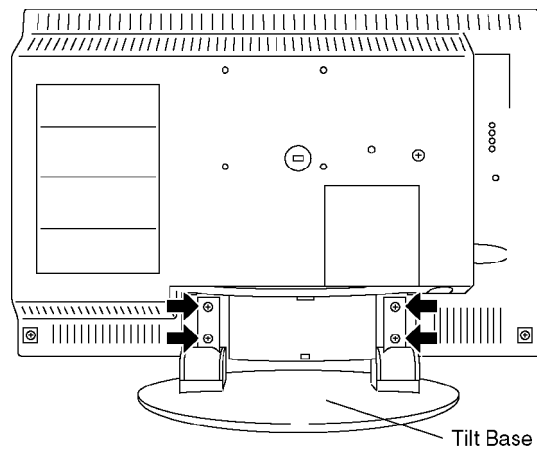
10.2. Hinge Cover

1. Remove the hinge cover while disengaging the hook on its upper parts.



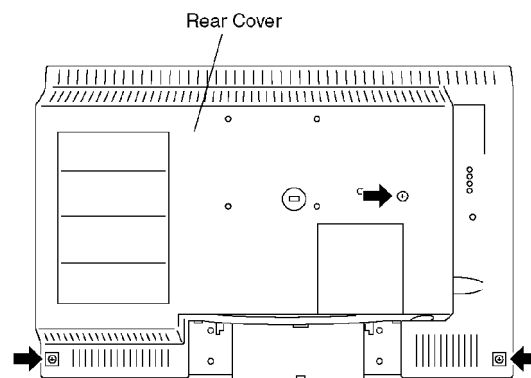
10.3. Tile Base

1. Remove the screws (4pcs).



10.4. Rear Cover Ass'y

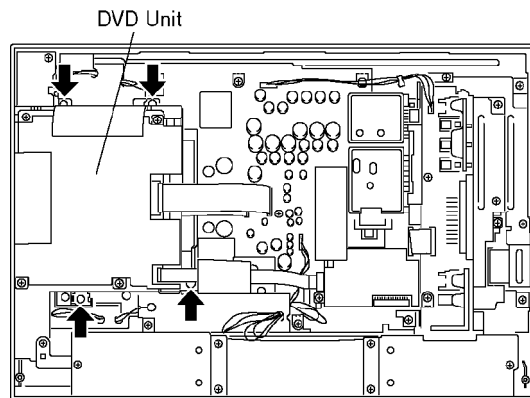
1. Remove the screws (3pcs).



10.5. DVD Unit

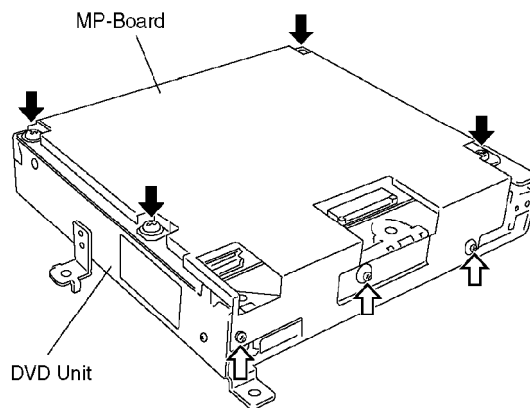
1. Remove the screws (4pcs).

2. Disconnect the flexible cables (2 locations).



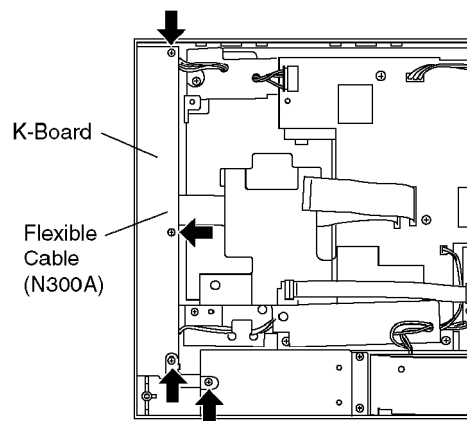
10.6. MP-Board

1. Remove the screws (4pcs).
2. Remove the screws (3pcs).
3. Disconnect the flexible cable (1 location).



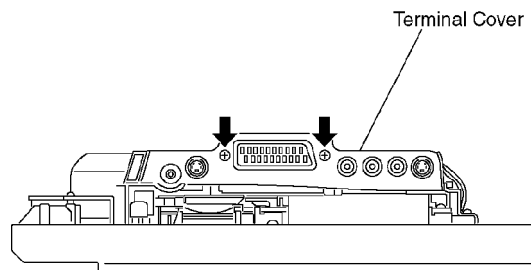
10.7. K-Board

1. Remove the screws (4pcs).
2. Disconnect the cover (N2200).
3. Disconnect the flexible cable (N300A).



10.8. H-Board/ B-Board

1. Remove the screws (2pcs).

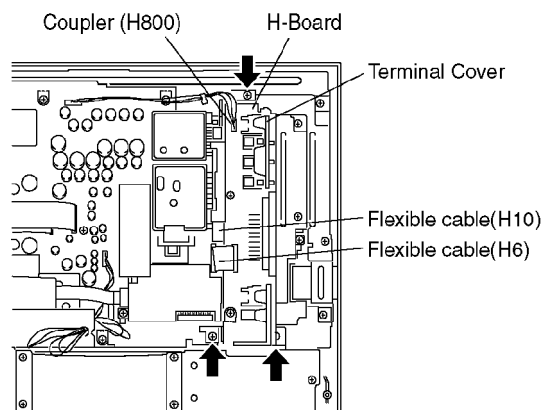


2. Remove the Side Terminal Cover.

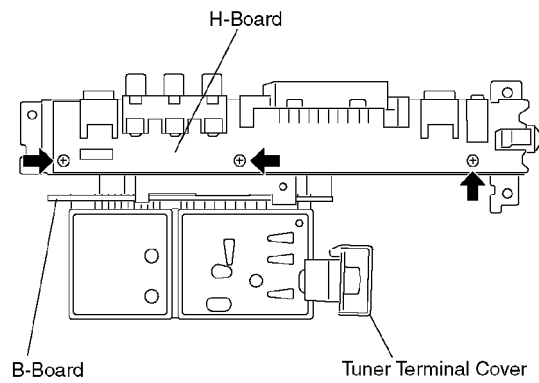
3. Remove the screws (3pcs).

4. Disconnect the flexible cable (H6, H10).

5. Disconnect the coupler (H800).

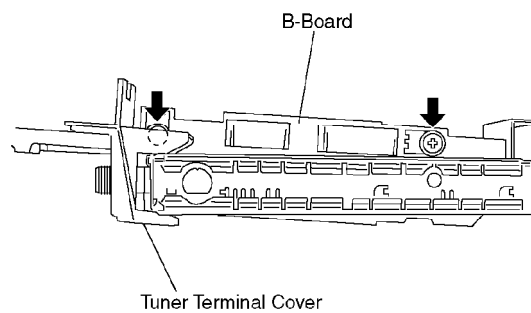


6. Remove the screws (3pcs).



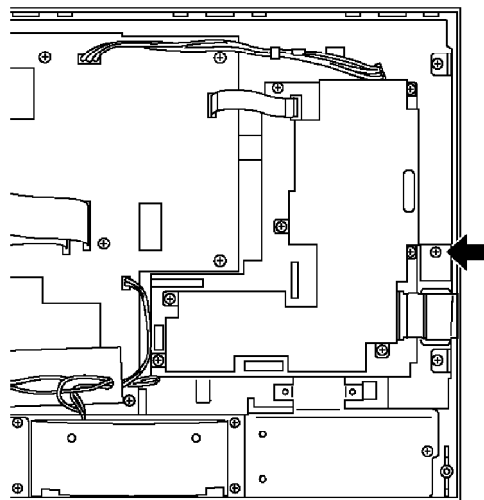
7. Remove the screws (2pcs).

8. Remove the Tuner Terminal Cover.



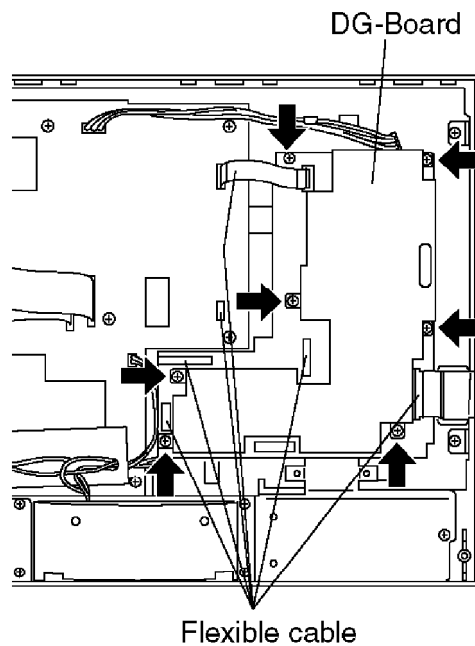
10.9. DG-Board

1. Remove the screw (1pcs).



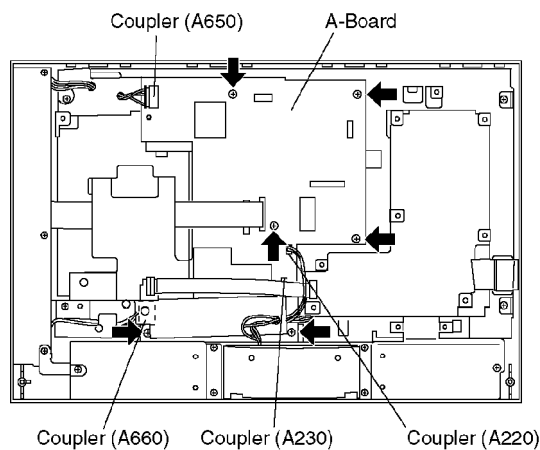
2. Remove the screws (7pcs).

3. Disconnect the flexible cables (6 locations).



10.10. A-Board

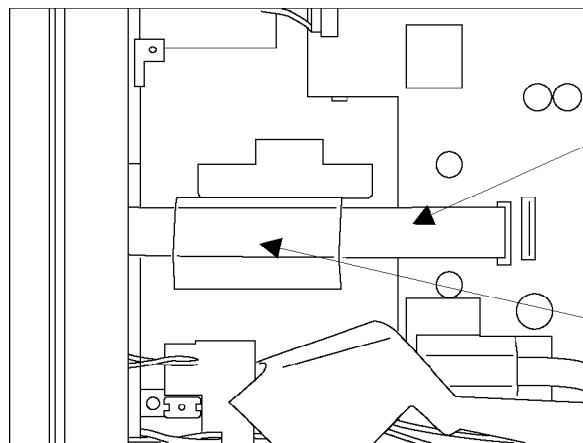
1. Remove the screws (6pcs).
2. Disconnect the coupler (A650, A660, A220, A230).



10.11. Method of pasting a copper foil tape

Purpose: It puts a flat cable to the metal fittings in the pasting with the copper foil tape and it gets a shield effect.

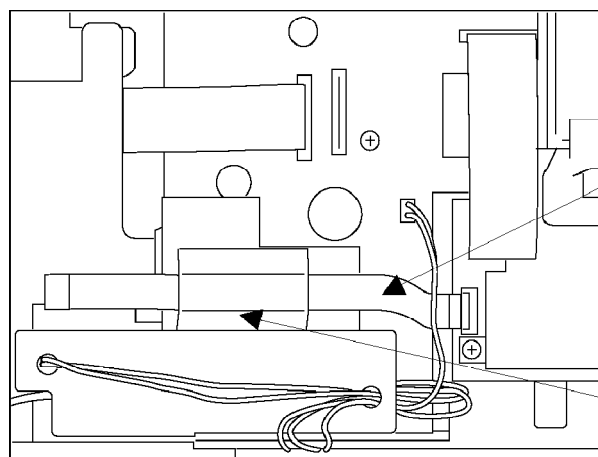
- A-Board (N300B)~K-Board (N300A) Flat Cable (20 pin)



A-Board – K-Board
(A300) (N300A)
Flat Cable
(Part No: TSXL211)

Copper foil tape: 70×40mm
(Part No: TEWF016)

- DG-Board (N6202)~MP-Board (N5405) Flat Cable (20 pin)



DG-Board – MP-Board
(DG5) (N5405)
Flat Cable
(Part No: TSXL206)

Copper foil tape: 30×40mm
(Part No: TEWF018)

11. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

11.1. How to enter SERVICE 1

1. Set the channel to CH99.
2. In sound menu, set BASS to MAXIMUM, and set TREBLE to MINIMUM.
3. Simultaneously press INDEX button on remote control and DOWN

button [] on the TV set.

11.2. How to enter SERVICE 2

1. Set the channel to CH99.

2. Access DVCO in service 1 mode.
3. Press HOLD button on remote control.

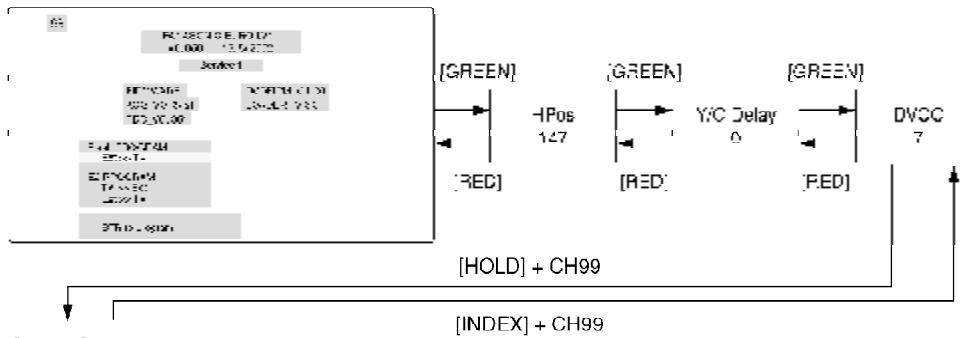
11.3. How to enter SERVICE DVD

1. Set the channel to CH99.
2. Access Hours in service 2 mode.
3. Press HOLD button on remote control.

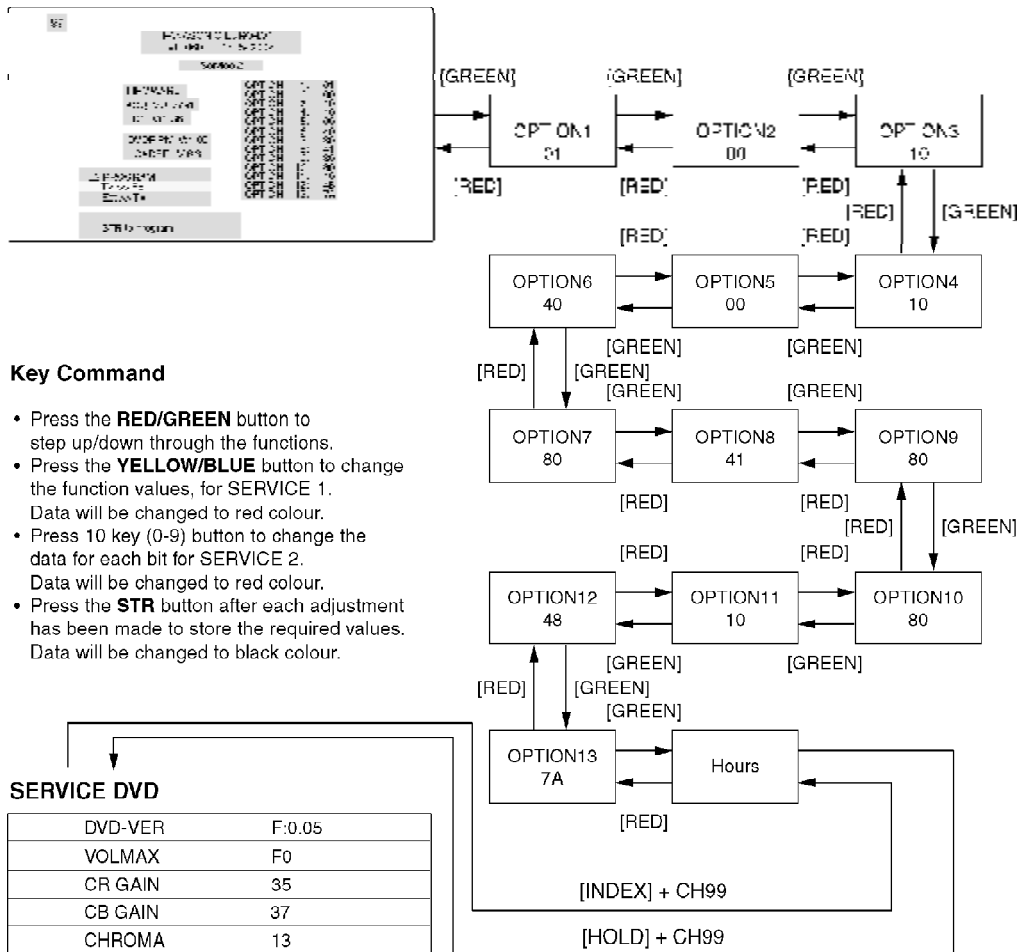
11.4. How to exit

1. To exit to Service mode, press N or Power button on remote control.

SERVICE 1



SERVICE 2



Key Command

- Press the **RED/GREEN** button to step up/down through the functions.
- Press the **YELLOW/BLUE** button to change the function values, for SERVICE 1. Data will be changed to red colour.
- Press 10 key (0-9) button to change the data for each bit for SERVICE 2. Data will be changed to red colour.
- Press the **STR** button after each adjustment has been made to store the required values. Data will be changed to black colour.

SERVICE DVD

DVD-VER	F:0.05
VOLMAX	F0
CR GAIN	35
CB GAIN	37
CHROMA	13

11.5. Option Description

option1	01		
b0	1	Colour system	Auto(1)
b1	0		SECAM(1)
b2	0		NTSC(1)
b3	0		M.NTSC(1)
b4	0	TV NTSC 50	Reserved
b5	0	TV SECAM 60	Reserved
b6	0	AV NTSC 50	Reserved
b7	0	AV SECAM 60	Reserved
option2	00		
b0	0	(CH Plan)	set to 0
b1	0		set to 0
b2	0		set to 0
b3	0		set to 0
b4	0		set to 0
b5	0		set to 0
b6	0		set to 0
b7	0		set to 0
option3	10		
b0	0	(sub picture)	set to 0
b1	0	(2tuner)	set to 0
b2	0	(VGA)	set to 0
b3	0	(YUV)	set to 0
b4	1	(Wide (16:9))	set to 0
b5	0	HYPER	UHF only (0), UHF/VHF (1)
b6	0	SIF	I only(0), BG only(1)
b7	0		I/BG/DK/L(2), BG/DK(3)
option4	10		
b0	1	A2 enable	enable(1)
b1	0		set to 0
b2	0		set to 0
b3	0		set to 0
b4	1	NICAM enable	enable(1)
b5	0		set to 0
b6	0		set to 0
b7	0		set to 0
option5	00		
b0	0	(A2 select 6.5MHz)	set to 0
b1	0	(NICAM priority)	set to 0
b2	0		set to 0
b3	0		set to 0
b4	0		set to 0
b5	0		set to 0
b6	0		set to 0
b7	0		set to 0
option6	40		
b0	0	(VCR/GAME in search)	Set to 0
b1	0	(SASO enable)	set to 0
b2	0	Noise mute	Noise mute enable(0)
b3	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
b4	0	(AV SW 3/2AV out)	set to 0
b5	0	Tuner	MACO tuner (0), ALPS tuner (1)
b6	1	free	
b7	0	free	
option7	80		
b0	0	Power up EC-Mode	Power on EC enable (1)
b1	0	CI I Blanking	Blanking enable (1)
b2	0	AV Blanking	Blanking enable (1)
b3	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
b4	0	Volume correction	TV Volume correction enable (1)
b5	0	AVLink	Q-Link on/off selectable in menu (1)
b6	0	MPX/NICAM display	Display NICAM (0), Display MPX (1)
b7	1	free	

option8	41		
b0	1	free	
b1	0	(Geomagnetic Sensor)	set to 0
b2	0	(Geomagnetic Polarity)	set to 0
b3	0	RF Attenuation	Enable(1)
b4	0	Fine tuning	Enable(1)
b5	0	Search speed	Slow(1) Fast(0)
b6	1	TEXT FLOF	Reserved
b7	0	TEXT TOP	TOP enable (1)
option9	80		
b0	0	free	
b1	0	free	
b2	0	free	
b3	0	free	
b4	0	free	
b5	0	(Surround SP polarity)	set to 0
b6	0	Volume curve	Volume curve1(0), curve2(1)
b7	1	free	
option10	80		
b0	0	free	
b1	0	(OSD language)	set to 0
b2	0		set to 0
b3	0		set to 0
b4	0	Blue Back	enable(0)
b5	0	free	
b6	0	free	
b7	1	(Protect 5V detect)	set to 1
option11	19		
b0	1	Shop mode	enable(1)
b1	0	(DDM/Dynamic display)	set to 0
b2	0	(Sub Headphone)	set to 0
b3	1	Scan mode Blanking	Blanking enable (1)
b4	1	User aspect 14:9	enable(1)
b5	0	(NICAM C4 bit)	set to 0
b6	0	(ID-1)	set to 0
b7	0	(1080i)	set to 0
option12	48	Area Option	
b0	0	(Asia)	set to 0
b1	0	(Australia)	set to 0
b2	0	Ireland	Ireland(1)
b3	1	UK	UK(1)
b4	0	(MELCOA)	set to 0
b5	0	(28 inch)	set to 0
b6	1	(Large size)	set to 1
b7	0	(PTV)	set to 0
option13	7A	Temporary	
b0	0	(VDU Version)	set to 0
b1	1	(GC Version)	set to 1
b2	0	(UV Swap)	set to 0
b3	1	TEXT	Enable(1)
b4	1	LT2 22inch	22inch(1), 15inch(0)
b5	1	free	
b6	1	(Picture Shift)	set to 1
b7	0	(CIP2)	set to 0

12. Conductor Views

12.1. A-Board

12.2. DG-Board

12.3. MP-Board

12.4. B, K and H-Board

13. Block and Schematic Diagram

13.1. Schematic Diagram Notes

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Notes:

1. Resistor

All resistors are carbon 1/4W resistor, unless marked as follows:

Unit of resistance is Ohm (Ω) (K=1,000, M=1,000,000).

\square	: Nonflammable	\boxtimes	: Metal Oxide
\triangle	: Solid	\boxplus	: Metal Film
∇	: Wire Wound	\boxdot	: Fuse

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μ F, unless otherwise noted.

\boxtimes	: Temperature Compensation	∇	: Electrolytic
\boxdot	: Polyester	\boxplus	: Bipolar
\boxdot	: Metalized Polyester	\odot	: Dipped Tantalum
\boxdot	: Polypropylene	\odot	: Z-Type

3. Coil

Unit of inductance is μ H, unless otherwise noted.

4. Test Point

\circ : Test Point position

5. Earth Symbol

Δ : Chassis Earth (Cold) ∇ : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source	AC 100 - 240 V, 50/60 Hz
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video \Rightarrow Audio \rightarrow

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

TX-15LV1
Schematic Diagram Notes

Remarks:

- The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.

Precautions

- Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
 - Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - Make sure to disconnect the power plug before removing the chassis.
- Following diodes are interchangeable.
MA150- MA162 (Replacement part)

TX-15LV1
Schematic Diagram Notes

13.2. Power Block Diagram

13.3. Signal Block Diagram

13.4. A-Board (1 of 4) Schematic Diagram

13.5. A-Board (2 of 4) Schematic Diagram

13.6. A-Board (3 of 4) Schematic Diagram

13.7. A-Board (4 of 4) Schematic Diagram

13.8. DG-Board (1 of 7) Schematic Diagram

13.9. DG-Board (2 of 7) Schematic Diagram

13.10. DG-Board (3 of 7) Schematic Diagram

13.11. DG-Board (4 of 7) Schematic Diagram

13.12. DG-Board (5 of 7) Schematic Diagram

13.13. DG-Board (6 of 7) Schematic Diagram

13.14. DG-Board (7 of 7) Schematic Diagram

13.15. MP-Board (1 of 4) Schematic Diagram

13.16. MP-Board (2 of 4) Schematic Diagram

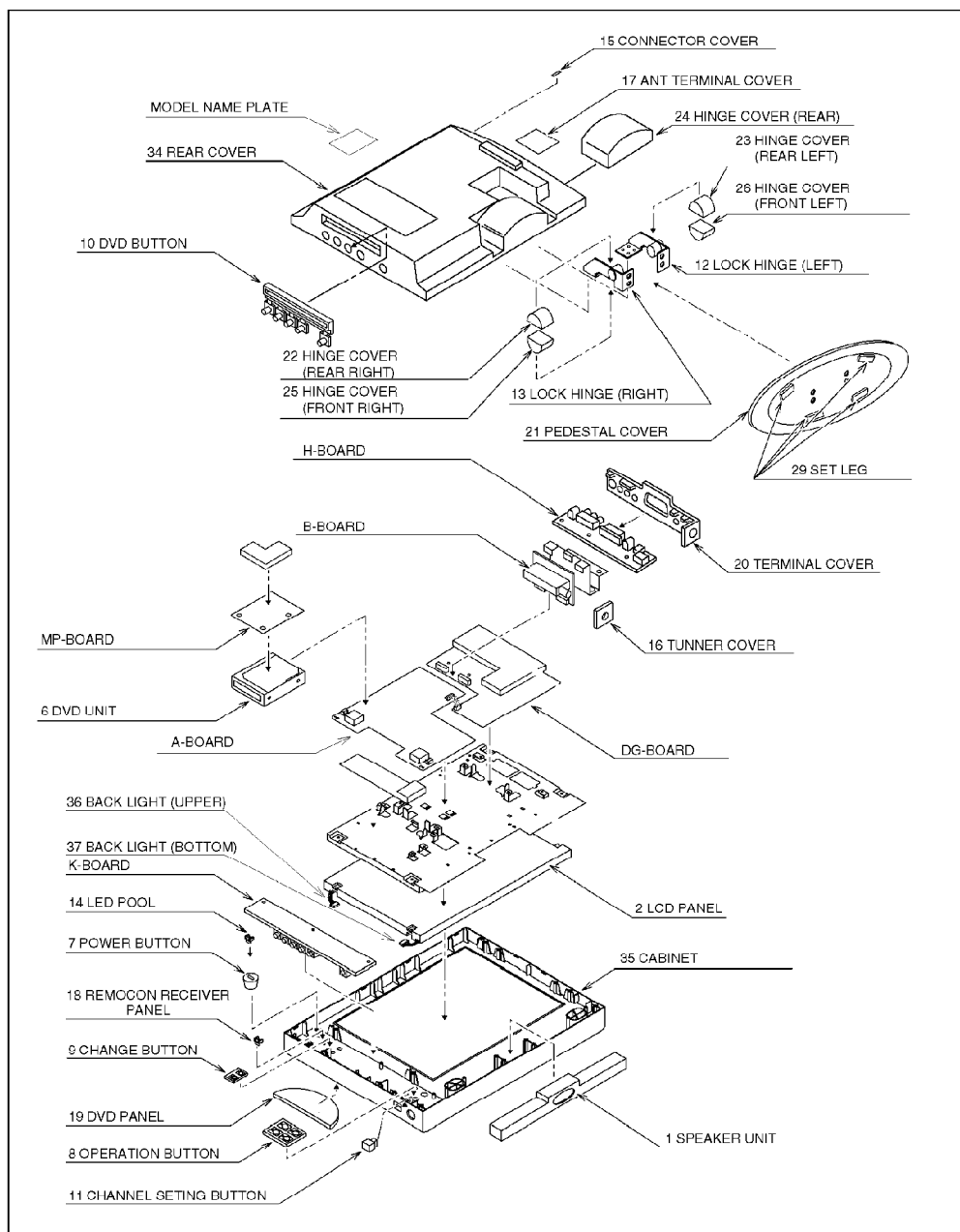
13.17. MP-Board (3 of 4) Schematic Diagram

13.18. MP-Board (4 of 4) Schematic Diagram

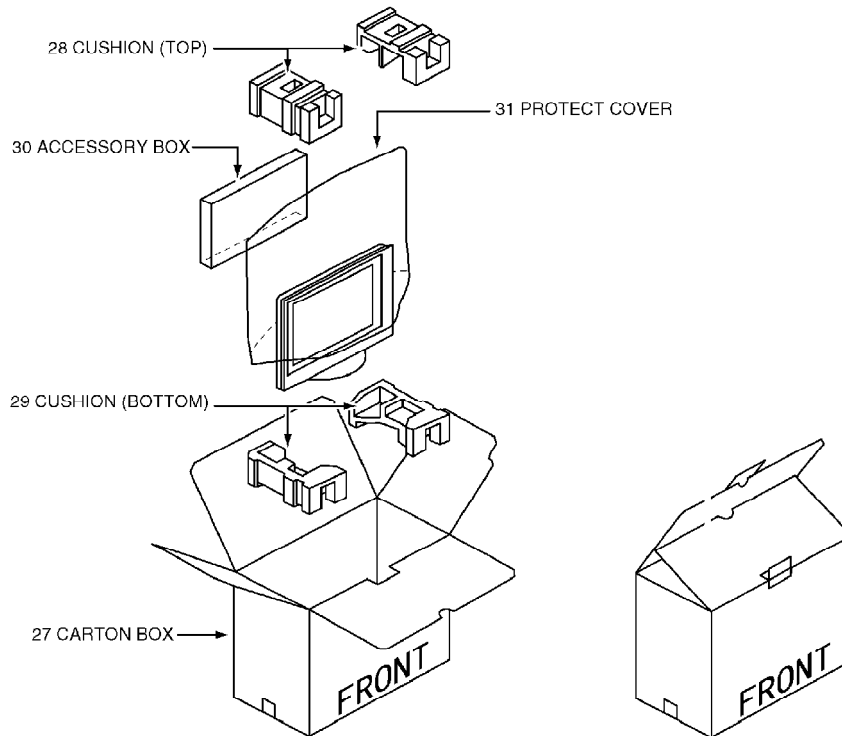
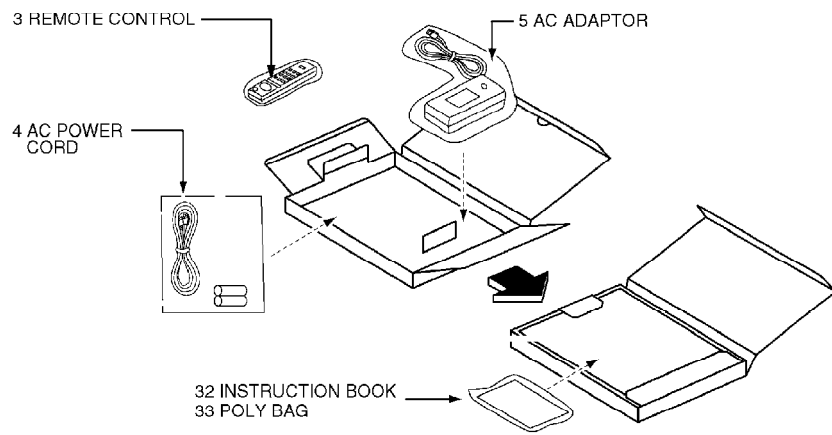
13.19. B, H and K-Board Schematic Diagram

14. Parts Location& Mechanical Replacement Parts List





14.1. Parts Location





14.2. Packing Exploded View



14.3. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>1</u>	EAB511A6	SPEAKER UNIT	1	
<u>2</u>	EDTCF06QCFZ2	LCD PANEL	1	
<u>3</u>	EUR7619010	REMOCON	1	
	J0KD00000056	FLAT CORE	1	
<u>4</u>	K2CT3AA00001	AC CORD	1	
<u>5</u>	N0JZHK000006	AC ADAPTOR	1	
<u>6</u>	RM-XY1527CD	DVD UNIT	1	
<u>7</u>	TBXA33001	POWER BUTTON	1	
<u>8</u>	TBXA33101	OPERATION BUTTON	1	
<u>9</u>	TBXA33201A	CHANGE BUTTON	1	
<u>10</u>	TBXA33301	DVD BUTTON	1	
<u>11</u>	TBXA33401	CHANNEL SETING BUTTON	1	
<u>12</u>	TEJA051	LOCK HINGE(LEFT)	1	
<u>13</u>	TEJA052	LOCK HINGE(RIGHT)	1	
	TESA172	SPRING	1	
	TEWF016	COPPER FOIL TAPE (70x40)	1	
	TEWF018	COPPER FOIL TAPE (30x40)	1	
<u>14</u>	TKKC5125	LED POOL	1	
<u>15</u>	TKKL5141-3	C0NNECTOR COVER	1	
<u>16</u>	TKKL5212	TUNER COVER	1	
<u>17</u>	TKKL5230	ANT TERMINAL COVER	1	
<u>18</u>	TKPA55201	REMOCON RECEIVER PANEL	1	
<u>19</u>	TKPA57301	DVD PANEL	1	
<u>20</u>	TKPA65401	TERMINAL COVER	1	
<u>21</u>	TKXA12301A	PEDESTAL COVER	1	
<u>22</u>	TKXA12401	HINGE COVER (FRONT RIGHT)	1	
<u>23</u>	TKXA12501	HINGE COVER (FRONT LEFT)	1	
<u>24</u>	TKXA12601	HINGE COVER (REAR)	1	
<u>25</u>	TKXA12701	HINGE COVER (REAR RIGHT)	1	
<u>26</u>	TKXA12801	HINGE COVER (REAR LEFT)	1	
	TMM25401	CLAMPER	1	
<u>27</u>	TPCB21302	CARTON BOX	1	
<u>28</u>	TPDA0601-1	CUSHION (TOP)	1	
<u>29</u>	TPDA0602	CUSHION (BOTTOM)	1	
<u>30</u>	TPDF0632-1	ACCESSORY BOX	1	
<u>31</u>	TPEH117	PROTECT COVER	1	
<u>32</u>	TQBC0489	INSTRUCTION BOOK	1	
<u>33</u>	TQE8513-2	POLY BAG	1	
	TSXL205	CABLE (45P)	1	
	TSXL206	CABLE (DVD PRINT-GC2)	1	
	TSXL208	CABLE (MAIN-DVD PRINT)	1	
	TSXL209	CABLE (GC2-LCD)	1	
	TSXL211	CABLE (MAIN-SW PRINT)	1	
	TSXL240	CABLE 12P (MAIN-DG)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TSXL241	CABLE 20P (MAIN-DG)	1	
	TSXL242	CABLE 22P (MAIN-DG)	1	
	TSXL243	CABLE 36P (DG-B PRINT)	1	
34	TTUA0570	REAR COVER	1	
35	TTYA0536	CABINET	1	
	XSN2+4	SCREW	4	
	XTN2+3F	SCREW	3	
	XTV3+10G	SCREW	2	
	XTV3+12G	SCREW	13	
	XTV3+12GFZ	SCREW	5	
	XTV3+8J	SCREW	3	
	XTW26+8S	SCREW	10	
	XTW3+6T	TAPPING SCREW	23	
	XYN3+C8	SCREW	3	
	XYN4+F10	SCREW	8	
	XZBT6506	POLY BAG	1	
36	LXF02YF060A	BACK LIGHT (UPPER)	1	
37	LXF02XF060A	BACK LIGHT (BOTTOM)	1	

15. Replacement Parts List

15.1. Replacement Parts List Notes

Important Safety Notice

*Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.*

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 \underline{C} 100KOHM, \underline{J} 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF \underline{C} 0.01UF, \underline{Z} 50V
Type Allowance

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polypropylene	G : $\pm 3\text{pF}$
T : Tantalum	J : $\pm 5\text{pF}$
	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : +100%, -0%
	Z : +80%, -20%

15.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	K1MN20A00036	20P CONNECTOR	1	
A2	K1MN22A00034	22P CONNECTOR	1	K1MN22A00040
A10	K1MN12A00038	12P CONNECTOR	1	
A20-34	K4ZZ01000128	TERMINAL	15	
A36,37	K4ZZ01000128	TERMINAL	2	
A220	TJS118610	4P CONNECTOR	1	K1KA04A00192
A230	K1KA02A00188	2P MINI	1	
A300	K1MN20A00050	20P CONNECTOR	1	K1MN20A00060
A650	K1KA03B00097	3P CONNECTOR	1	
A660	K1KA03B00097	3P CONNECTOR	1	
A800	TJS118610	4P CONNECTOR	1	K1KA04A00192
A810	K1MN20A00050	20P CONNECTOR	1	K1MN20A00060
B7	K1KA10A00202	10P CONNECTOR	1	
B8	K1KA14A00128	14P CONNECTOR	1	
C004	EEVHB1C470P	E 47UF, 16V	1	
C005	ECJ2VF1H223Z	C 0.022UF, Z, 50V	1	
C009	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C010	EEVHB1H4R7	E 4.7UF, 50V	1	
C012,13	EEVHB1C470P	E 47UF, 16V	2	
C014	EEVHB1H4R7	E 4.7UF, 50V	1	
C016,17	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C022	F1K1H1050002	C 1UF, Z, 50V	1	
C024	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C025	F1K1C4750010	C 47UF, Z, 50V	1	
C031	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C032	EEVHB0J470	E 47UF, 6.3V	1	
C601	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C602	ECJ2XF1H102Z	C 1000PF, Z, 50V	1	
C604	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C607	ECJ2XC1H331J	C 330PF, J, 50V	1	
C608,09	ECJ2XB1C334K	C 0.33UF, K, 16V	2	
C610,11	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C612,13	F2A1E1010030	E 100UF 25V	2	
C614	ECJ3XF1E105Z	C 1UF, Z, 25V	1	
C615,16	ECHU1H104JC9	P 0.1UF. 50V	2	
C617,18	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C619	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C620,21	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C622	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C625,26	ECHU1H563JC9	P 0.056UF. 50V	2	
C629,30	ECHU1H563JC9	P 0.056UF. 50V	2	
C631,32	ECJ2XF1C334Z	C 0.33UF, Z, 16V	2	
C633-36	F1A3F3300002	C 0.33PF, J, 3KV	4	
C801	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C802	ECA1EHG471	E 470UF, 25V	1	
C806	F2A1C6810005	E 680UF, 16V	1	
C807	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C808	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C810	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C811	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C814	ECJ2XB1H104K	C 0.1UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C815	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C817	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C818,19	ECJ2XB1A105K	C 1UF, K, 10V	2	
C823	EEVHB0G470	E 47UF, 4V	1	
C824,25	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C826,27	ECA1EHG471	E 470UF, 25V	2	
C828	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C829	ECA1EHG471	E 470UF, 25V	1	
C830,31	F2A1C6810005	E 680UF, 16V	2	
C832	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C833,34	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C835	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C836	ECA1CM102	E 1000UF, 16V	1	
C837	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C838	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C839	ECA1EM102	E 1000UF, 25V	1	
C840	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C841	EEVHB1V470P	E 47UF, 35V	1	
C842	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C843	ECA1EHG471	E 470UF, 25V	1	
C844	EEVHB1C220R	E 22UF, 16V	1	
C845	ECJ2XB1A105K	C 1UF, K, 10V	1	
C846	F2A1C6810005	E 680UF, 16V	1	
C847	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C848	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C849	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C850	ECJ2XB1A105K	C 1UF, K, 10V	1	
C851	EEVHB1C100	E 10UF, 16V	1	
C852	ECJ2XB1A105K	C 1UF, K, 10V	1	
C853	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C854	ECA1EHG471	E 470UF, 25V	1	
C855	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C856	F2A1C6810005	E 680UF, 16V	1	
C857	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C861	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C862	ECA1EHG471	E 470UF, 25V	1	
C863	F2A1C6810005	E 680UF, 16V	1	
C864	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C869	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C871,72	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C873,74	ECJ2XB1H222K	C 2200PF, K, 50V	2	
C901-04	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1001	EEVHB1C470P	E 47UF, 16V	1	
C1002	EEVHB0J101P	E 100UF, 6.3V	1	
C1003	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1004-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1009	EEVHB0G221	E 220UF, 4V	1	
C1010,11	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1012	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1014	EEVHB1C100	E 10UF, 16V	1	
C1015	EEVHB0G221	E 220UF, 4V	1	
C1016-18	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C1019	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1020	EEVHB1C100	E 10UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1021,22	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1024	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1025	EEVHB0G221	E 220UF, 4V	1	
C1026	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1028	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1030-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1034	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1036	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1038	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1043-47	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C1049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1051	EEVHB1C100	E 10UF, 16V	1	
C1054,55	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1056	EEVHB0J101P	E 100UF, 6.3V	1	
C1057-59	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C1060,61	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1062-64	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C1065-69	ECJ1VB1H102K	C 1000PF, K, 50V	5	
C1070-76	ECJ1XC1H271J	C 270PF, J, 50V	7	
C1077	F1J1A1050020	C 1UF, Z, 50V	1	
C2001	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C2002	ECJ1XC1H271J	C 270PF, J, 50V	1	
C2003	ECJ1XC1H561J	C 560PF, J, 50V	1	
C2004	ECJ1XC1H821J	C 820PF, J, 50V	1	
C2011	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C2012	ECJ1XC1H271J	C 270PF, J, 50V	1	
C2013	ECJ1XC1H561J	C 560PF, J, 50V	1	
C2014	ECJ1XC1H821J	C 820PF, J, 50V	1	
C2020	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2021	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C2022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2023	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2073	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C2074	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2311	EEVHB1E4R7	E 4.7UF, 25V	1	
C2312	ECJ2XB1H822K	C 8200PF, K, 50V	1	
C2313	ECA1CM102	E 1000UF, 16V	1	
C2315,16	ECJ2YB1E224K	C 0.22UF, K, 25V	2	
C2359,60	EEVHB1E4R7	E 4.7UF, 25V	2	
C2361	ECA1CMH101	E 100UF, 16V	1	
C2362	ECJ2XB1C334K	C 0.33UF, K, 16V	1	
C2363	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2364	F2A1V2210022	E 220UF, 35V	1	
C2366	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2367	F2A1V2210022	E 220UF, 35V	1	
C2368	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2369,70	ECJ2XB1H822K	C 8200PF, K, 50V	2	
C2371	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2372	ECA1EM102	E 1000UF, 25V	1	
C2373	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2381	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2504	EEVHB0G101	E 100UF 4V	1	
C2513	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2524	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2527	EEVHB1H2R2	C 2.2UF, 50V	1	
C2528,29	EEVHP1E4R7	E 4.7UF, 25V	2	
C2531	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2534-36	EEVHB1E4R7	E 4.7UF, 25V	3	
C2537,38	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2539,40	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2541-43	ECJ2XB1H102J	C 1000PF, J, 50V	3	
C2544,45	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2546	EEVHB1C100	E 10UF, 16V	1	
C2547	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2548	EEVHB1C100	E 10UF, 16V	1	
C2549	EEVHB1C470P	E 47UF, 16V	1	
C2550	ECJ2YB0J335K	C 3.3UF, Z,6.3V	1	
C2552	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2553	EEVHB1C220R	E 22UF, 16V	1	
C2554	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2557	EEVHB0J101P	E 100UF, 6.3V	1	
C2560	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2561	ECA1CM221	E 220UF, 16V	1	
C2562	EEVHB1C100	E 10UF, 16V	1	
C2565	ECA1CMH101	E 100UF, 16V	1	
C2566	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2567	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2569	ECJ2XC1H070C	C 0.07PF, C, 50V	1	
C2570,71	ECJ2XC1H010C	C 1PF, C, 50V	2	
C2572,73	ECJ2XC1H560J	C 56PF, J, 50V	2	
C2575	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2576,77	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C2581-84	ECJ2XB1H561K	C 560PF, K, 50V	4	
C3001,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3003	EEVHB0J101P	E 100UF, 6.3V	1	
C3004	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3005	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3006-08	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C3009,10	ECJ1XC1H150J	C 15PF, J, 50V	2	
C3011,12	ECJ1XC1H220J	C 22PF, J, 50V	2	
C3014	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3015	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3016	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C4002	ECJ1XC1H561J	C 560PF, J, 50V	1	
C4003	EEVHB1C470P	E 47UF, 16V	1	
C4004	ECJ1XC1H561J	C 560PF, J, 50V	1	
C4005,06	ECJ1XB1H271K	C 270PF, K, 50V	2	
C4009,10	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4012	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4013	EEVHB1C220R	E 22UF, 16V	1	
C4015	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4018-23	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C4025	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C4028-30	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C4031	ECJ1VB1H102K	C 1000PF, K, 50V	1	


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4037,38	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4041	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4042	EEVHB1C100	E 10UF, 16V	1	
C4043	EEVHB1C470P	E 47UF, 16V	1	
C4044	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4045-48	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C4050,51	ECJ1XC1H561J	C 560PF, J, 50V	2	
C4055-58	ECJ1VB1H102K	C 1000PF, K, 50V	4	
C4063	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4249	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4500	F2A1A471A123	E 470UF, 10V	1	
C5101,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5103,04	ECJ1XC1H100D	C 10PF, D, 50V	2	
C5105-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C5108	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C5109,10	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C5111,12	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5113	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C5114	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C5115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5116	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5119	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5120	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C5130	ECJ1XC1H180J	C 18PF, J, 50V	1	
C5131,32	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C5133-39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C5140-42	ECJ1VB1H102K	C 1000PF, K, 50V	3	
C5143	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5144,45	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C5146	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C5147	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5148	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5201	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5202	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5203	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5204	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5205,06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5207	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5208-21	ECJ1XF1C104Z	C 0.1UF, Z, 16V	14	
C5222	ECJ1XC1H100D	C 10PF, D, 50V	1	
C5223,24	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5225	ECJ1XC1H100D	C 10PF, D, 50V	1	
C5226,27	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5228	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C5229-37	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C5238	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5239-42	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C5243,44	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C5245-51	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C5252	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5253	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5254	ECJ1XC1H271J	C 270PF, J, 50V	1	
C5255	ECJ1XC1H331J	C 330PF, J, 50V	1	
C5256	ECJ1XC1H220J	C 22PF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5257	ECJ1XC1H271J	C 270PF, J, 50V	1	
C5258	ECJ1XC1H331J	C 330PF, J, 50V	1	
C5259	ECJ1XC1H220J	C 22PF, J, 50V	1	
C5260	ECJ1XC1H271J	C 270PF, J, 50V	1	
C5261	ECJ1XC1H331J	C 330PF, J, 50V	1	
C5262	ECJ1XC1H220J	C 22PF, J, 50V	1	
C5263	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5270,71	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C5272,73	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5276	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5277,78	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C5279	ECJ3XB1C105K	C 1UF, K, 16V	1	
C5280	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C5284	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C5285	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5286	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C5287	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5288	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C5289	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5290	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C5291	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5401	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5402	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5403	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C5404,05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5406	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C5407	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5408	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C6004-06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C6007,08	EEVHB0J470	E 47UF, 6.3V	2	
C6009-16	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C6017	EEVHB1C100	E 10UF, 16V	1	
C6018	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6019	EEVHB0J101P	E 100UF, 6.3V	1	
C6020-26	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C6028-39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	12	
C6301,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6305	EEVHB0G221	E 220UF, 4V	1	
C6306-08	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C6309	EEVHB0J101P	E 100UF, 6.3V	1	
C6310	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6313,14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6316-24	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C6325	EEVHB0G101	E 100UF 4V	1	
C6326	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6327-31	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C6332	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6333	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C6334	ECJ2XB1A105K	C 1UF, K, 10V	1	
C6336	ECJ1XC1H101J	C 100PF, J, 50V	1	
C6339	ECJ1XC1H101J	C 100PF, J, 50V	1	
C6340	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C6341	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6342	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C6343	ECJ1VC1H560J	C 56PF, J, 50V	1	
C6344	ECJ1XC1H331J	C 330PF, J, 50V	1	
C6345	ECJ1XC1H561J	C 560PF, J, 50V	1	
C6346	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6347	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C6348	ECJ1XC1H331J	C 330PF, J, 50V	1	
C6349	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6350	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6351	EEVHB0J101P	E 100UF, 6.3V	1	
C6353	EEVHB0J101P	E 100UF, 6.3V	1	
C6354	ECJ1XC1H470J	C 47PF, J, 50V	1	
C6355	EEVHB0J470	E 47UF, 6.3V	1	
C6356-59	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C6360	EEVHB1C470P	E 47UF, 16V	1	
C6361	EEVHB0J470	E 47UF, 6.3V	1	
C6362,63	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6364	EEVHB0J220	E 22UF 6.3V	1	
C9001-22	ECJ1XF1C104Z	C 0.1UF, Z, 16V	22	
C9023	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9024	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9028	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9029	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9030	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9031,32	ECJ1XC1H271J	C 270PF, J, 50V	2	
C9033	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9034,35	ECJ1XC1H271J	C 270PF, J, 50V	2	
C9036	EEVHB1C100	E 10UF, 16V	1	
C9037	ECJ1XC1H391J	C 390PF, J, 50V	1	
C9038	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9039,40	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C9041	EEVHB1C100	E 10UF, 16V	1	
C9042	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9043	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9044	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C9045	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9046	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9047	ECJ1XC1H391J	C 390PF, J, 50V	1	
C9048	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9049	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9050,51	ECJ1XC1H030C	C 3PF, C, 50V	2	
C9052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9053	EEVHB1C100	E 10UF, 16V	1	
C9054	EEVHB0J101P	E 100UF, 6.3V	1	
C9055,56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9057	ECJ1XC1H391J	C 390PF, J, 50V	1	
C9058-64	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C9501	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9502	EEVHB0J470	E 47UF, 6.3V	1	
C9503	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9505,06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9507	EEVHB0J470	E 47UF, 6.3V	1	
C9508-10	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9512	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9514-16	EEVHB1C100	E 10UF, 16V	3	
C9517-19	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9520-22	ECJ1VB1C104K	C 0.1UF, K, 16V	3	
C9523	EEVHB0J101P	E 100UF, 6.3V	1	
C9524	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9526	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9527	EEVHB1C220R	E 22UF, 16V	1	
C9528	EEVHB1C470P	E 47UF, 16V	1	
C9529,30	EEVHB1E4R7	E 4.7UF, 25V	2	
C9531-33	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C9534	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9536	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9538	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9540	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9541-43	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C9544,45	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9546	ECJ1VF1C474Z	C 0.47UF, Z, 16V	1	
C9547	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9548	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9549	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9550	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9551	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9552	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9553	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9554	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9555	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9556	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9557	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9558	EEVHB1C470P	E 47UF, 16V	1	
D001	MA152K	DIODE	1	MA3X152K
D002,03	MA3020	ZENER DIODE	2	
D004	B3AGA0000072	DIODE	1	
D601,02	MA111	DIODE	2	MA2J111
D605-08	B0JCNE000004	DIODE	4	
D609-12	MA113	DIODE	4	MA2J113
D613,14	DAN217	DIODE	2	
D615,16	MA111	DIODE	2	MA2J111
D801-03	MA737	DIODE	3	MA2Q737
D804,05	MA111	DIODE	2	MA2J111
D806	MA8062L	ZENER DIODE	1	MAZ80620L
D807-09	MA737	DIODE	3	MA2Q737
D810	MA111	DIODE	1	MA2J111
D811	MA8056-M	ZENER DIODE	1	MAZ80560M
D812	B0JANE000009	DIODE	1	
D813	MA111	DIODE	1	MA2J111
D814	MA8056-M	ZENER DIODE	1	MAZ80560M
D816	MA8110M	ZENER DIODE	1	MAZ81100ML
D817,18	MA111	DIODE	2	MA2J111
D819	MA8056-M	ZENER DIODE	1	MAZ80560M
D820	MA111	DIODE	1	MA2J111
D821	MA8062L	ZENER DIODE	1	MAZ80620L
D822	MA737	DIODE	1	MA2Q737
D823	MA111	DIODE	1	MA2J111

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D824	MA8056-M	ZENER DIODE	1	MAZ80560M
D951-60	MA8056-M	ZENER DIODE	10	MAZ80560M
D2300	MA8200M	ZENER DIODE	1	MAZ82000M
D2304,05	MA8200M	ZENER DIODE	2	MAZ82000M
D2308	MA8200M	ZENER DIODE	1	MAZ82000M
D2501	MA8047M	ZENER DIODE	1	MAZ80470M
D2510	MA111	DIODE	1	MA2J111
D2511	MA157A	DIODE	1	MA3X157A
D2512	MA152	DIODE	1	
D2513	MA111	DIODE	1	MA2J111
D2516	MA152	DIODE	1	
D3001-03	MA8056-M	ZENER DIODE	3	MAZ80560M
D3004	MA728	DIODE	1	MA2J728
D4001	MA8140M	ZENER DIODE	1	MAZ81400M
D4004	MA8140M	ZENER DIODE	1	MAZ81400M
D4007	MA8140M	ZENER DIODE	1	MAZ81400M
D4100-14	MA8140M	ZENER DIODE	15	MAZ81400M
D4116-18	MA8140M	ZENER DIODE	3	MAZ81400M
D4121-28	MA8140M	ZENER DIODE	8	MAZ81400M
D6301,02	MA2Z374001FD	ZENER DIODE	2	
DG1	K1MN20B00043	20P CONNECTOR	1	
DG2	K1MN22A00034	22P CONNECTOR	1	K1MN22A00040
DG3	TJSF52250	1P CONNECTOR	1	K1MN50B00005
DG4	K1KA11A00048	11P CONNECTOR	1	
DG5	K1MN20B00043	CONNECTOR	1	
DG6	K1MN36A00006	36P CONNECTOR	1	
DG7	K1KB10B00029	10P CONNECTOR	1	
DG8	K1KB14A00053	14P CONNECTOR	1	
DG10	K1MN12B00103	12P CONNECTOR	1	
FG5200,01	K4CD01000002	TERMINAL	2	
H6	K1MN36B00017	36P CONNECTOR	1	
H800	TJS118610	4P CONNECTOR	1	K1KA04A00192
IC001	C0ZBZ0000443	IC	1	
IC601	NJM2904M	LINEAR IC	1	C0ABBA000021
IC602	C0DBCMA00004	IC	1	
IC801-04	PQ1CZ21H2ZP	IC	4	C0DBCMG00001
IC806	TA7812F	IC	1	C0CBAKG00001
IC807-09	PQ1CZ21H2ZP	IC	3	C0DBCMG00001
IC810	AN77L08M	IC	1	
IC901	C0JBAN000098	IC	1	
IC905-09	TC4066BFN	MOS IC (CMOS S/LOGIC)	5	C0JBAS000095
IC910	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1001	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1002	C2CBYF000028	IC	1	
IC1003	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1004	TVRJ861	IC	1	
IC1005	C0JBAZ001839	IC	1	
IC1006	C0JBAE000231	IC	1	
IC1007	TVRJ772	IC	1	
IC1008	TVSA0500	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2000	C0FBBH000037	IC	1	
IC2002	C0ABCB000051	IC	1	
IC2301	TA8256BH	LINEAR IC	1	C1BA00000218
IC2502	AN17880A	IC	1	
IC2503	C1AB00001584	IC	1	
IC3001	TVRJ862	IC	1	
IC3002	C2CBKH000041	IC	1	
IC3004	M51957BFP	LINEAR IC	1	C0EBB0000024
IC4001	C0JBAS000113	IC	1	
IC4002	CXA2069Q	LINEAR IC	1	C1AB00000459
IC5100	C2CBYY000007	IC	1	
IC5101	C0JBAB000333	IC	1	
IC5102	C0JBAB000203	IC	1	
IC5103	C0EBJ0000065	IC	1	
IC5104	C1EB00000046	IC	1	
IC5105,06	C0JBAR000353	IC	2	
IC5107	C0JBAJ000015	IC	1	
IC5108	C0JBAR000353	IC	1	
IC5109	C3ABKG000089	IC	1	
IC5110	TVRJ773	IC	1	
IC5200	C1AB00001573	IC	1	
IC5201,02	TVSA0435	IC	2	
IC5203	C0CBAYF00004	IC	1	
IC5204	AN7707SP	IC	1	
IC5401	C0JBAF000233	IC	1	
IC5402	C0JBAF000184	IC	1	
IC5403	C0JBAZ001330	IC	1	
IC6001	C0FBAD000070	IC	1	
IC6302	C1ZBZ0001831	IC	1	
IC6305	C0ABBB000195	IC	1	
IC6306	C0JBAB000290	IC	1	
IC9001	C1AB00001345	IC	1	
IC9501	74LVC74APW	MOS IC (CMOS S/LOGIC)	1	C0JBAZ0000923
IC9502	C0FBBD000126	IC	1	
IC9505	AN5394FB	IC	1	
JAB1	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JK801	K2EE2B000003	PLUG	1	
JK2501	B3MAZ0000022	JACK	1	
JK2502	TJSF32800	HEAD PHON JACK	1	K2HC103B0095
JK4001	K1CB106B0026	CONNECTOR	1	
JK4002	K1FB121B0007	CONNECTOR	1	
JK4003	K2HA306B0060	JACK	1	
JK4004	K1CB106B0026	CONNECTOR	1	
L001	G1ZZ00000032	INDUCTION COIL	1	
L002	ELJPA330KF	CHIP INDUCTOR	1	
L009,10	ELJPA330KF	CHIP INDUCTOR	2	
L601,02	G1C101MA0032	INDUCTION COIL	2	
L801	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L802	TAL10RP101LB	INDUCTION COIL	1	G0ZZ00001930
L803-05	TALL08N470KA	INDUCTION COIL	3	G0A470GA0011
L806-08	TAL10RP101LB	INDUCTION COIL	3	G0ZZ00001930

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L809	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L810	TAL10RP101LB	INDUCTION COIL	1	G0ZZ00001930
L811	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L812	TAL10RP101LB	INDUCTION COIL	1	G0ZZ00001930
L813	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L814	TAL10RP101LB	INDUCTION COIL	1	G0ZZ00001930
L1001	ELJPA4R7MF	CHIP INDUCTOR	1	
L1002	ELJPA180KB	CHIP INDUCTOR	1	
L1003	ELJPA330KF	CHIP INDUCTOR	1	
L1004	ELJPA3R3MB	CHIP INDUCTOR	1	
L1009	ELJFA4R7KF	CHIP INDUCTOR	1	
L1010	ELJFA8R2KB	CHIP INDUCTOR	1	
L1013	ELJFA4R7KF	CHIP INDUCTOR	1	
L2301	EXCELSA35	BEAD CHOKE	1	
L2501	ELJPA330KF	CHIP INDUCTOR	1	
L2503,04	ELJPA330KF	CHIP INDUCTOR	2	
L2505	ELJFA6R8MB	CHIP COIL	1	
L2506,07	ELJPA330KF	CHIP INDUCTOR	2	
L2510,11	G1C121Z00004	INDUCTOR COIL	2	
L3001	ELJFA100JF	CHIP COIL	1	
L4001-03	EXC3BB221H	BEAD CHOKE	3	
L4004-07	J0JBC0000004	CHIP INDUCTOR	4	
L4008	ELJPA6R8MB	CHIP COIL	1	
L4009,10	J0JBC0000004	CHIP INDUCTOR	2	
L5101-04	J0JHC0000034	CHIP INDUCTOR	4	
L5105	J0JCC0000009	BEAD CHOKE	1	
L5201	J0JHC0000034	CHIP INDUCTOR	1	
L5203	TSK1032	BEAD CHOKE	1	J0JCC0000100
L5206-08	TSK1032	BEAD CHOKE	3	J0JCC0000100
L5209-11	J0JHC0000034	CHIP INDUCTOR	3	
L5215-17	ELJFC1R5JF	INDUCTION COIL	3	
L5401	J0JHC0000034	CHIP INDUCTOR	1	
L5402-20	TSK1032	BEAD CHOKE	19	J0JCC0000100
L5422	J0JHC0000035	CHIP INDUCTOR	1	
L6001,02	ELJPA100KB	CHIP INDUCTOR	2	
L6301-03	J0JHC0000001	CHIP INDUCTOR	3	
L6304	ELJPA101KF	CHIP INDUCTOR	1	
L6305	G1C121Z00004	INDUCTOR COIL	1	
L6306	ELJND68NJB	CHIP INDUCTOR	1	
L6307	ELJNDR18JB	CHIP INDUCTOR	1	
L6308-10	J0JHC0000001	CHIP INDUCTOR	3	
L9001,02	ELJFA220JF	CHIP COIL	2	
L9003,04	ELJFA5R6JF	CHIP INDUCTOR	2	
L9005	ELJFA220JF	CHIP COIL	1	
L9006	ELJPA6R8MF	CHIP INDUCTOR	1	
L9501,02	ELJPA100KB	CHIP INDUCTOR	2	
L9503-05	ELJFA4R7JF	CHIP INDUCTOR	3	
LC1001-03	ELKE103FA	NOISE FILTER	3	
LC4100,01	TLK20LFA473M	EMI FILTER	2	
LC6301-08	J0HABB000008	LC FILTER	8	
LC6309	J0HAAB000010	LC FILTER	1	
LC6310-25	J0HABB000008	LC FILTER	16	
LC9001	ELKE103FA	NOISE FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LC9003-11	ELKE103FA	NOISE FILTER	9	
LG1	TESA169	SHIELD CLIP	1	
LG4-G6	TESA169	SHIELD CLIP	3	
LG091,92	TJC85341	TERMINAL	2	K4ZZ01000121
LG101-03	TESA169	SHIELD CLIP	3	
LG801-04	TJC85341	TERMINAL	4	K4ZZ01000121
LG1000-06	K4CD01000001	TERMINAL	7	
LG4000,01	TJC85341	TERMINAL	2	K4ZZ01000121
N300A	K1MN20B00079	CONNECTOR	1	
N810B	K1MN20B00067	20P CONNECTOR	1	
N5401	K1MN45B00013	45P CONNECTOR	1	
N5405	K1MN20B00043	20P CONNECTOR	1	
PA618,19	UNHH20600L	TRANSISTOR	2	
Q004,05	2SB709A	TRANSISTOR	2	2SB0709A
Q006,07	UN5211	TRANSISTOR	2	UNR5211
Q601	UN5211	TRANSISTOR	1	UNR5211
Q602	2SB1219A	TRANSISTOR	1	
Q603	2SC39380LL	TRANSISTOR	1	
Q604,05	FMY1AT148	TRANSISTOR	2	
Q606,07	2SJ499	TRANSISTOR	2	
Q608	2SD601A	TRANSISTOR	1	2SD0601A
Q609,10	UN5211	TRANSISTOR	2	UNR5211
Q611	2SD601A	TRANSISTOR	1	2SD0601A
Q612,13	UN5111	TRANSISTOR	2	UNR5111
Q614-17	2SD1802ST	TRANSISTOR	4	B1BBCF000013
Q803	B1DHDD000013	TRANSISTOR	1	B1DHDD000012
Q804,05	UN5211	TRANSISTOR	2	UNR5211
Q806	2SD601A	TRANSISTOR	1	2SD0601A
Q807	UN5211	TRANSISTOR	1	UNR5211
Q808	2SB709A	TRANSISTOR	1	2SB0709A
Q810-12	B1DHDD000013	TRANSISTOR	3	B1DHDD000012
Q813	2SD601A	TRANSISTOR	1	2SD0601A
Q814	UN5211	TRANSISTOR	1	UNR5211
Q815	2SD601A	TRANSISTOR	1	2SD0601A
Q817	UN5111	TRANSISTOR	1	UNR5111
Q818-22	UN5211	TRANSISTOR	5	UNR5211
Q823-25	B1DHDC000016	TRANSISTOR	3	
Q826	UN5211	TRANSISTOR	1	UNR5211
Q829	UN5211	TRANSISTOR	1	UNR5211
Q830	2SD601A	TRANSISTOR	1	2SD0601A
Q901	UN5211	TRANSISTOR	1	UNR5211
Q902-04	2SB1440	TRANSISTOR	3	2SB14400H
Q905-07	2SB709A	TRANSISTOR	3	2SB0709A
Q908	2SB1440	TRANSISTOR	1	2SB14400H
Q909	2SB709A	TRANSISTOR	1	2SB0709A
Q1001	UN5111	TRANSISTOR	1	UNR5111
Q1002	UN5211	TRANSISTOR	1	UNR5211
Q1004	2SD601A	TRANSISTOR	1	2SD0601A
Q2501	UN5211	TRANSISTOR	1	UNR5211
Q2502	UN5111	TRANSISTOR	1	UNR5111

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2503	UN5211	TRANSISTOR	1	UNR5211
Q2510,11	UN5211	TRANSISTOR	2	UNR5211
Q2513	2SB709A	TRANSISTOR	1	2SB0709A
Q2514	2SD601A	TRANSISTOR	1	2SD0601A
Q2515	2SB709A	TRANSISTOR	1	2SB0709A
Q2516	2SD601A	TRANSISTOR	1	2SD0601A
Q2519	UN5111	TRANSISTOR	1	UNR5111
Q3001,02	UN5211	TRANSISTOR	2	UNR5211
Q4001	2SD601A	TRANSISTOR	1	2SD0601A
Q4004	2SB709A	TRANSISTOR	1	2SB0709A
Q4005,06	2SD601A	TRANSISTOR	2	2SD0601A
Q4008	UN5211	TRANSISTOR	1	UNR5211
Q4009,10	2SB709A	TRANSISTOR	2	2SB0709A
Q4227,28	2SB709A	TRANSISTOR	2	2SB0709A
Q5201	B1DHDC000016	TRANSISTOR	1	
Q5202	B1DHDD000013	TRANSISTOR	1	B1DHDD000012
Q5203,04	UN5211	TRANSISTOR	2	UNR5211
Q6001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q6301	2SD601A	TRANSISTOR	1	2SD0601A
Q6304	B1ABBB000046	TRANSISTOR	1	
Q9001-04	2SD601A	TRANSISTOR	4	2SD0601A
Q9501	2SC39380LL	TRANSISTOR	1	
Q9502-04	2SD601A	TRANSISTOR	3	2SD0601A
Q9505-07	2SB709A	TRANSISTOR	3	2SB0709A
R005	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R008	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R011,12	ERJ3EKF5600	M 560 OHM, 1/16W	2	
R015	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R017	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R022,23	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R025	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R027	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R032	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R033-35	ERJ6GEYJ561	M 560 OHM,J,1/10W	3	
R036	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R037,38	ERJ6ENF6801	M 6.8KOHM, 1/10W	2	
R039	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R040	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R041	ERJ8ENF2151	M2.15KOHM, 1/8W	1	
R042	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R043	ERJ8ENF1021	M1.02KOHM, 1/8W	1	
R044	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R048	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R050	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R053	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R054,55	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R056,57	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R061	ERJ6ENF6191	M6.19KOHM, 1/10W	1	D1BD6191A027
R062	ERJ6ENF6341	M6.34KOHM, 1/10W	1	D1BD6341A027
R063	ERJ6ENF8061	M8.06KOHM, 1/10W	1	D1BD8061A027
R064	ERJ6ENF1432	M14.3KOHM, 1/10W	1	D1BD1432A028
R065	ERJ6ENF2432	M24.3KOHM, 1/10W	1	D1BD2432A028
R070	ERJ8ENF1021	M1.02KOHM, 1/8W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R071	ERJ8ENF2151	M2.15KOHM, 1/8W	1	
R601-04	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R605	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R606	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R607,08	ERJ12YJ471	M 470OHM,J, 1/2W	2	
R609	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R610,11	ERJ6ENF6982	M69.8KOHM, 1/10W	2	D1BD6982A028
R612,13	ERJ6ENF2212	M22.1KOHM, 1/10W	2	D1BD2212A028
R614	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R615,16	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R617,18	ERJ6ENF2212	M22.1KOHM, 1/10W	2	D1BD2212A028
R619	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R620	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R621,22	ERJ8GEYJ152	M 1.5KOHM, J,1/8W	2	ERJ8GEYJ152V
R623	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R624	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	ERJ8GEYJ471V
R625	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R626	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	ERJ8GEYJ471V
R627	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R628	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R629,30	ERJ12YJ100	M 10 OHM,J, 1/2W	2	
R631	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R634	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R635	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R636	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R637	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R638	ERJ6ENF4872	M48.7KOHM, 1/10W	1	D1BD4872A028
R639	ERJ6GEYJ622	M 6.2KOHM,J,1/10W	1	D0GD622JA016
R640	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R641	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R642	ERJ6ENF4872	M48.7KOHM, 1/10W	1	D1BD4872A028
R643	ERJ6GEYJ622	M 6.2KOHM,J,1/10W	1	D0GD622JA016
R644,45	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R646,47	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R648,49	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R651,52	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R654-57	ERJ12YJ150	M 15 OHM,J, 1/2W	4	
R658,59	ERJ6ENF5111	M5.11KOHM, 1/10W	2	D1BD5111A027
R660,61	ERJ6ENF1272	M12.7KOHM, 1/10W	2	D1BD1272A028
R662,63	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R664,65	ERJ6ENF2200	M 220 OHM, 1/10W	2	
R801,02	D0X0R0000016	M 0 OHM,J,1/10W	2	
R804	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R805	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R807	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R808	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R811	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R814-16	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R818	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R820	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R821	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R822,23	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R824	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R825	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R827	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R828	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R831,32	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R833	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R834,35	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R836	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	D1BD1101A027
R837	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R838	ERJ6ENF1691	M1.69KOHM, 1/10W	1	
R839	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R840	ERJ6ENF1781	M1.78KOHM, 1/10W	1	D1BD1781A027
R841	ERJ6ENF1102	M 11KOHM, 1/10W	1	D1BD1102A028
R843	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R846	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	D0GD822JA016
R847	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R850	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R851	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R852	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R853	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R854	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R856	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R857,58	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R859	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R860	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R862	D0X0R0000016	M 0 OHM,J,1/10W	1	
R865	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R868	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R869	ERJ6ENF1691	M1.69KOHM, 1/10W	1	
R871	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R872	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R873	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R874	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R875	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R876	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R907,08	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	D0GB121JA002
R909-11	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R913,14	EXB38V121J	RESISTOR ARRAY	2	
R915,16	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R918	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R923	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R924,25	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R926	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R927-29	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R930	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R1001	ERJ3GEYJ512	M 5.1KOHM,J,1/16W	1	
R1002	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1004	EXB38V473J	RESISTOR ARRAY	1	
R1005,06	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R1007	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1008	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1010	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1011	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1012	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1013	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1014,15	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R1016	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1017,18	EXB38V680J	RESISTOR ARRAY	2	
R1019	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1020	EXB38V680J	RESISTOR ARRAY	1	
R1023	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1024	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1027	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1029	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1033	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1034	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1036	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1037	EXB38V680J	RESISTOR ARRAY	1	
R1038	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1039	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1044	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1045	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1046	EXB38V680J	RESISTOR ARRAY	1	
R1047	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1048	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1049	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1050	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1051	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1052	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1053,54	EXB38V680J	RESISTOR ARRAY	2	
R1058	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1059	EXB38V680J	RESISTOR ARRAY	1	
R1061	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1062,63	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1064	EXB38V680J	RESISTOR ARRAY	1	
R1066	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1068	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1071	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1072	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1073	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1074	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1077	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1078	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1079	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1081	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1084	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1085,86	EXB38V680J	RESISTOR ARRAY	2	
R1087	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1088	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1090-92	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R1093	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1094	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1095	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1096	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1098,99	EXB38V101J	RESISTOR ARRAY	2	
R1100	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1101,02	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R1103	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1105	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1106	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1107	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1108	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1109,10	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1116	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1119	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1120,21	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1127,28	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1132	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1133	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1135	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2001	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R2002	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R2003	ERJ3EKF4991	M4.99KOHM, 1/16W	1	
R2004	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2005	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R2006	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R2011	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R2012	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R2013	ERJ3EKF4991	M4.99KOHM, 1/16W	1	
R2014	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2015	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R2016	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R2020	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2021,22	ERJ3EKF1003	M 100KOHM, 1/16W	2	
R2023	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R2024	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2030	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R2035-37	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R2038	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2039	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2040-47	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
R2053	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2309	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2310	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2311	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R2352	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2353,54	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R2355,56	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R2360,61	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R2502-04	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R2505,06	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	2	
R2511,12	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2514,15	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2516	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2518,19	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2533	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2545,46	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2547	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2551	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2552	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R2553	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2554	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R2556	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2557	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2558	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2559	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2560,61	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2562,63	ERJ6GEYJ273	M 27KOHM,J,1/10W	2	
R2566	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2567	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2573	D0X0R0000016	M 0 OHM,J,1/10W	1	
R2574	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2575	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3002,03	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3004,05	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R3006,07	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3008-14	EXB38V473J	RESISTOR ARRAY	7	
R3015	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3016,17	EXB38V473J	RESISTOR ARRAY	2	
R3019	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3020-22	EXB38V473J	RESISTOR ARRAY	3	
R3024,25	EXB38V473J	RESISTOR ARRAY	2	
R3027	EXB38V473J	RESISTOR ARRAY	1	
R3028	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3030	EXB38V473J	RESISTOR ARRAY	1	
R3031	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3032-34	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R3035,36	EXB38V473J	RESISTOR ARRAY	2	
R3037	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R3038	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3039	EXB38V473J	RESISTOR ARRAY	1	
R3040	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3041	EXB38V473J	RESISTOR ARRAY	1	
R3042,43	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R3046	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3053	ERJ3EKF1272	M12.7KOHM, 1/16W	1	
R3058	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R3059-61	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R3062	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R3063	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R4001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R4002	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R4003	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R4006	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R4007	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R4008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R4010	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4011	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R4012	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4013	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4014	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R4015	ERJ3GEYJ302	M 3KOHM,J,1/16W	1	
R4016	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R4018-20	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R4024	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R4025,26	ERJ3EKF1200	M 120 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4027	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R4028	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4030	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4033	ERJ3EKF1200	M 120 OHM, 1/16W	1	
R4037	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4038-40	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4041	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4050,51	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R4052,53	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4054	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4055,56	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R4057	ERJ3GEYJ274	M 270KOHM,J,1/16W	1	
R4058	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4059,60	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R4062	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4063	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R4064	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4078-81	ERJ3GEYJ102	M 1KOHM,J,1/16W	4	
R4231,32	ERJ3GEYJ271	M 270 OHM,J,1/16W	2	
R4249	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4427,28	ERJ14YJ331	M 330 OHM, J,1/4W	2	
R4500,01	ERJ6ENF71R5	M71.5 OHM, 1/10W	2	ERJ6ENF71R5V
R4505	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4507	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4508	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R5100	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R5101	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R5102	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R5103	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5104	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5105,06	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R5107,08	ERJ3GEYJ750	M 75 OHM,J,1/16W	2	
R5109,10	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R5111,12	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R5113	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5114	ERJ3EKF2700	M 270 OHM, 1/16W	1	
R5115	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R5116-20	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R5121	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R5122	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5123,24	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R5125,26	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R5127-29	ERJ3GEYJ330	M 33 OHM,J,1/16W	3	
R5130	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R5131-33	ERJ3GEYJ330	M 33 OHM,J,1/16W	3	
R5134	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R5135,36	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R5138	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5140	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5141	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5142	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R5143,44	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R5145	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5146	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5147	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R5148	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5149	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R5150,51	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R5152-54	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R5155	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R5156,57	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R5158	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5159	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R5160	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5161-64	ERJ3GEYJ223	M 22KOHM,J,1/16W	4	
R5165-68	ERJ3GEYJ473	M 47KOHM,J,1/16W	4	
R5169	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5180	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R5201	ERJ3EKF1181	M1.18KOHM, 1/16W	1	
R5202	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5203,04	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R5205	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5206	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5210,11	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R5212	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5214-48	ERJ3GEY0R00	M 0 OHM, 1/16W	35	
R5249	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5250-54	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R5257	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R5258,59	ERJ6ENF2700	M 270 OHM, 1/10W	2	
R5261	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R5262-64	ERJ3EKF75R0	M 0.75HM, 1/16W	3	
R5268	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R5270	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R5271	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5272	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5273	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R5274,75	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R5276	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R5277	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5279-81	ERJ3EKF75R0	M 0.75HM, 1/16W	3	
R5401	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5402-09	ERJ3GEYJ473	M 47KOHM,J,1/16W	8	
R5410	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5411-28	ERJ3GEYJ330	M 33 OHM,J,1/16W	18	
R5429	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5430,31	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R6001-03	ERJ3EKF1131	M1.13KOHM, 1/16W	3	
R6004-06	ERJ3EKF1001	M 1KOHM, 1/16W	3	
R6007	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R6008	EXB38V472J	RESISTOR ARRAY	1	
R6009	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R6010	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R6011-13	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R6014	ERJ3EKF7500	M 750 OHM, 1/16W	1	
R6015-17	ERJ3GEYJ123	M 12KOHM,J,1/16W	3	
R6018,19	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R6020	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

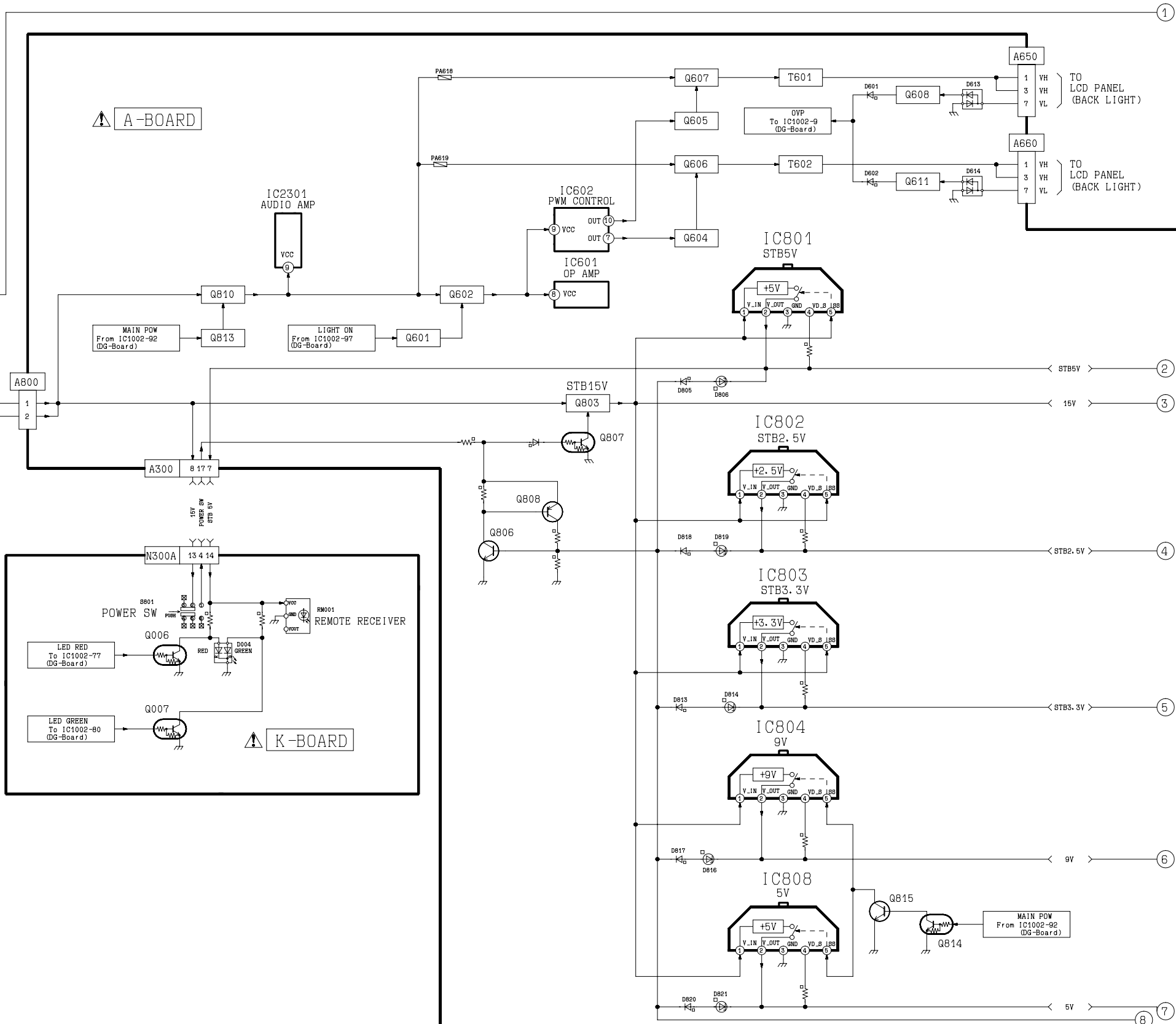
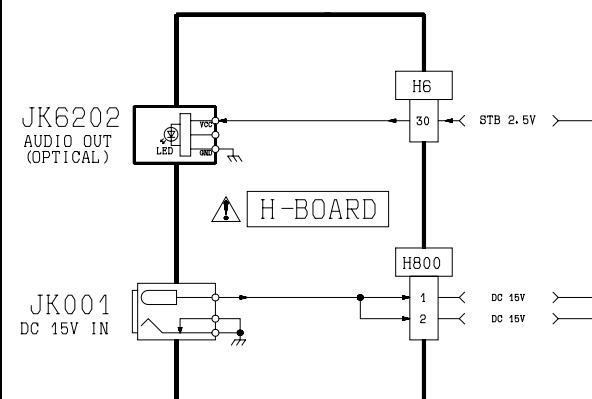
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6027-29	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R6303	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6307-09	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R6312	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6313	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R6314	EXB38V103J	RESISTOR ARRAY	1	
R6315	EXB38V101J	RESISTOR ARRAY	1	
R6316	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6317	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6318	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R6319	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6320	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R6325	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6326	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R6327	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6328	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6329,30	EXB38VR000	RESISTOR ARRAY	2	
R6331	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6332,33	EXB38VR000	RESISTOR ARRAY	2	
R6337	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R6338	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R6339	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R6340	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R6341	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R6342	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R6343	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	1	
R6344	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R6345,46	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R6347	EXB38VR000	RESISTOR ARRAY	1	
R6348	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6349	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R6351	EXB38VR000	RESISTOR ARRAY	1	
R6352	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R6353	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R6356	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6361	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9017	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9024-26	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R9027-30	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R9031	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9032,33	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R9034	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9036	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9037	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9038	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9039	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9040	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9046	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9047	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R9049	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9051-53	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R9054	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9055	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9502	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9506,07	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R9508	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9509	ERJ3EKF3900	M 390 OHM, 1/16W	1	
R9511,12	ERJ3EKF3900	M 390 OHM, 1/16W	2	
R9513	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9518	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9522-24	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9526,27	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9529,30	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9532,33	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9535-37	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R9538	EXB38V101J	RESISTOR ARRAY	1	
R9542	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R9543	ERJ3EKF2002	M 20KOHM, 1/16W	1	
R9545	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9546	ERJ3GEYJ274	M 270KOHM,J,1/16W	1	
R9548	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9550	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9551	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R9552	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9553	ERJ3GEYJ684	M 680KOHM,J,1/16W	1	D0GB684JA002
R9554	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9555-57	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9558-60	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9564	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9565	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9566	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9567	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9568	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9569	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9570	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9571	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9572	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9573	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9574	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9575	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9600	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TXN/A10GMK	CIRCUIT BOARD A	1	
RTL	TXNDG10GMK	CIRCUIT BOARD DG	1	
RTL	TNPA2575	CIRCUIT BOARD B	1	
RTL	TNPA2577	CIRCUIT BOARD H	1	
RTL	TXNMP10GMK	CIRCUIT BOARD MP	1	
RTL	TNPA2576	CIRCUIT BOARD K	1	
S001-03	EVQ23405R	SWITCH	3	
S004	EVQPC105K	SWITCH	1	
S005-07	EVQ23405R	SWITCH	3	
S008-13	EVQPC105K	SWITCH	6	
S801	ESB64601	SWITCH(POWER)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SP5200-03	TESA169	SHIELD CLIP	4	
SP5205	TESA169	SHIELD CLIP	1	
T601,02	ETJ23K12AM	INVARTOR TRANS	2	⚠
TNR001	ENG27511GR	TUNER	1	⚠
X1001	H0J600400006	CRYSTAL	1	
X2501	H0J184500020	CRYSTAL	1	
X3001	TSS4008-N	CRYSTAL	1	H0J160500020
X3002	TSSA154	CRYSTAL	1	H0J372700001
X5101	H0J270500036	CRYSTAL	1	
X9001	H0J202500003	CRYSTAL	1	

16. Schematic Diagram for printing with A4

A
B
C
D
E

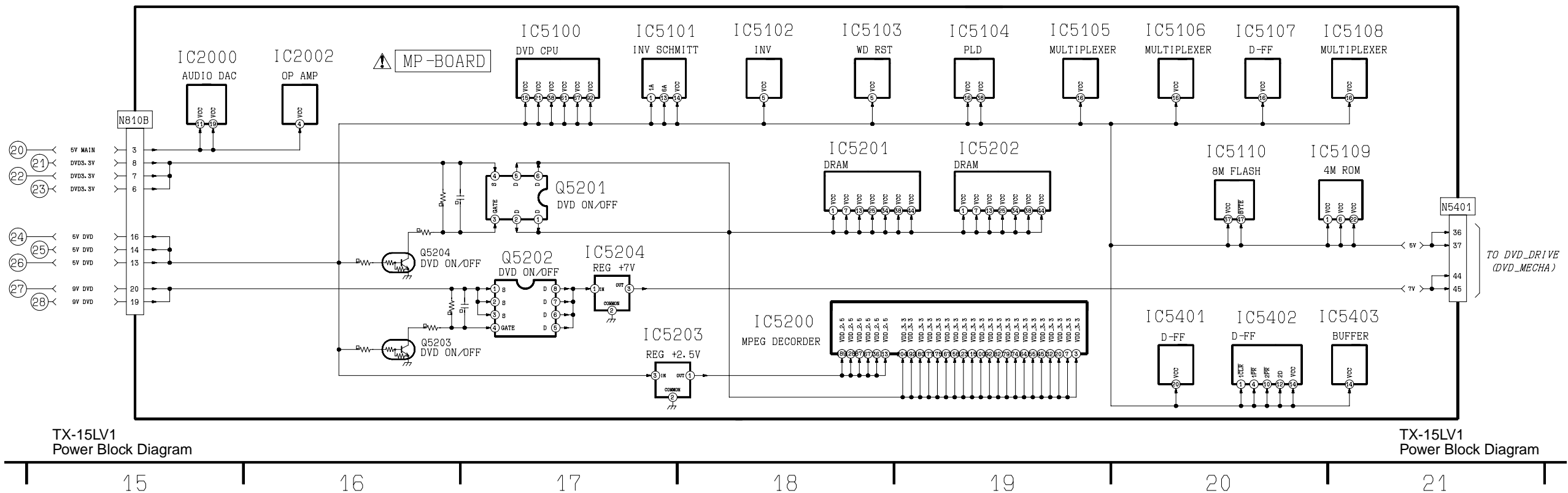
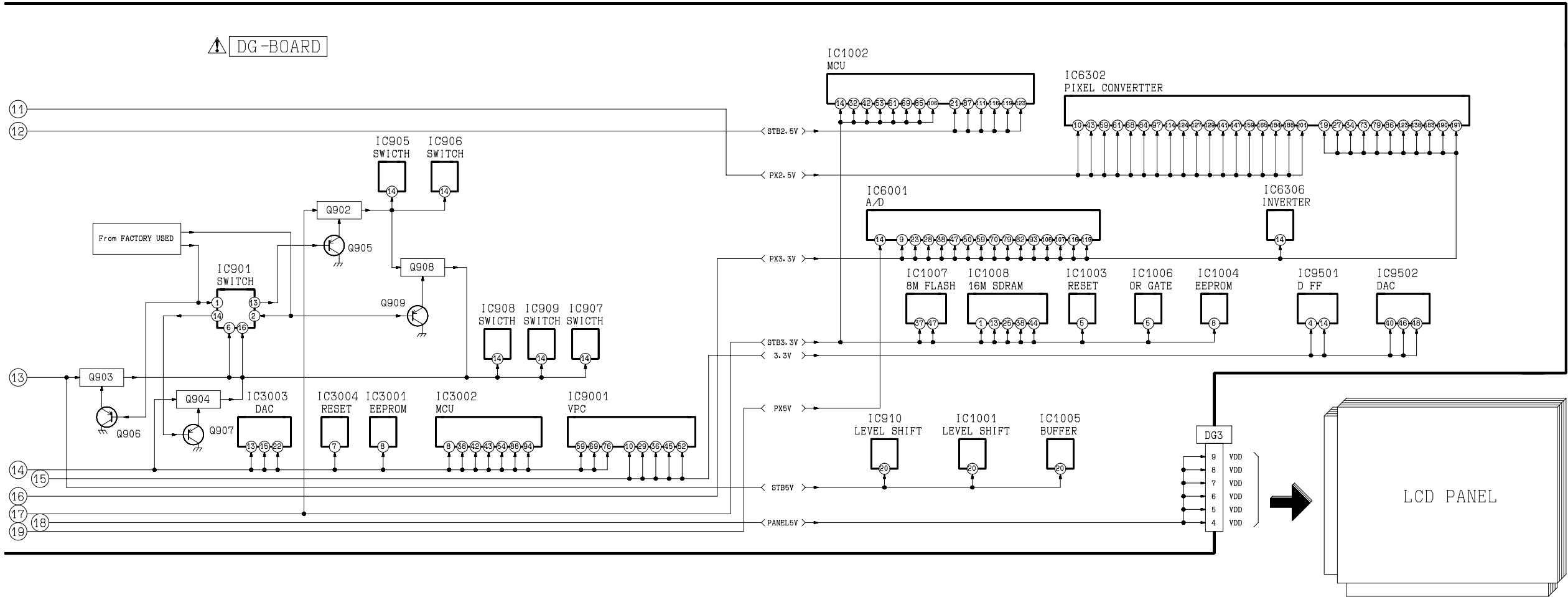


TX-15LV1
Power Block Diagram

TX-15LV1
Power Block Diagram

1 2 3 4 5 6 7 8





A

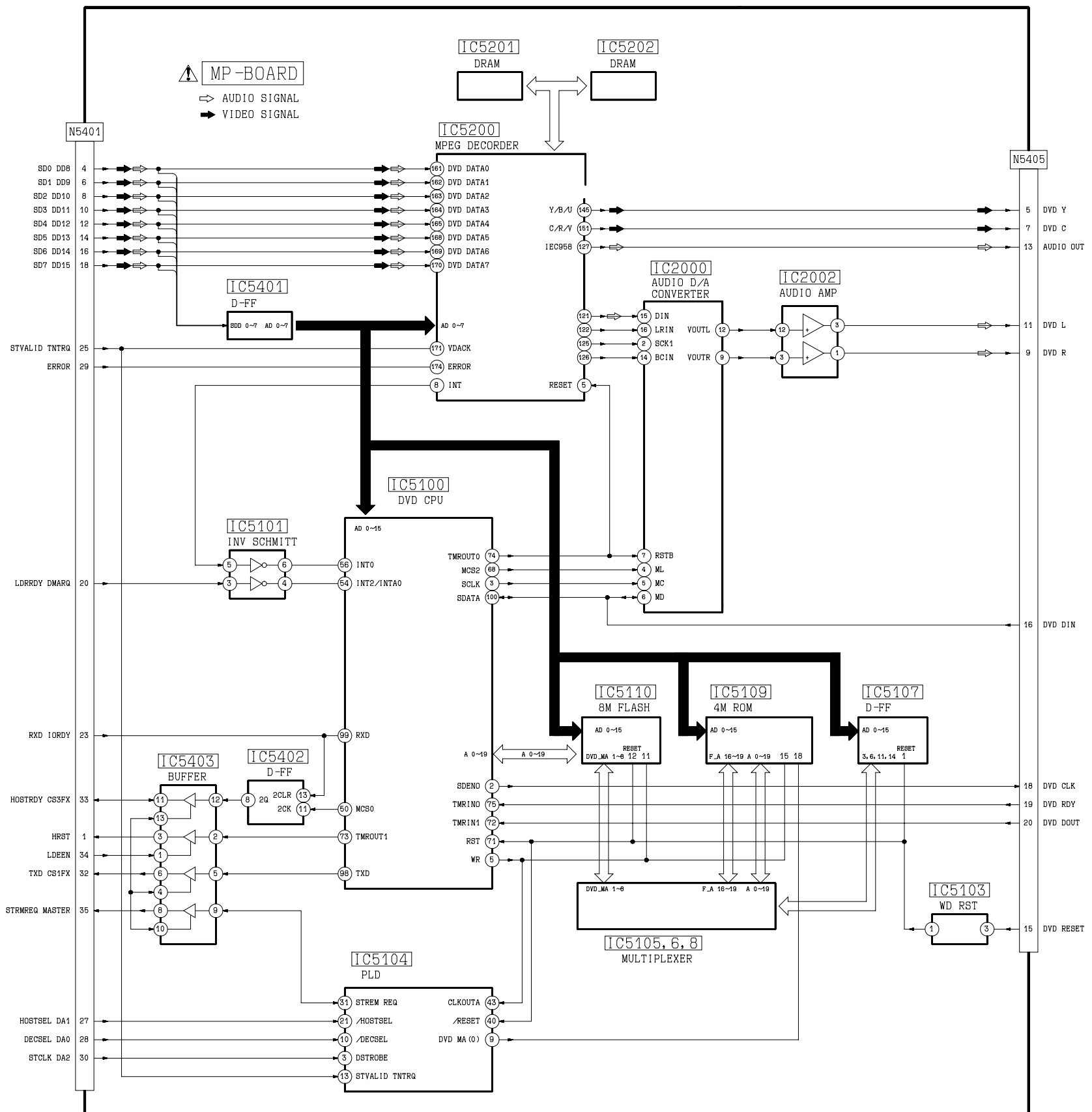
B

C

D

E

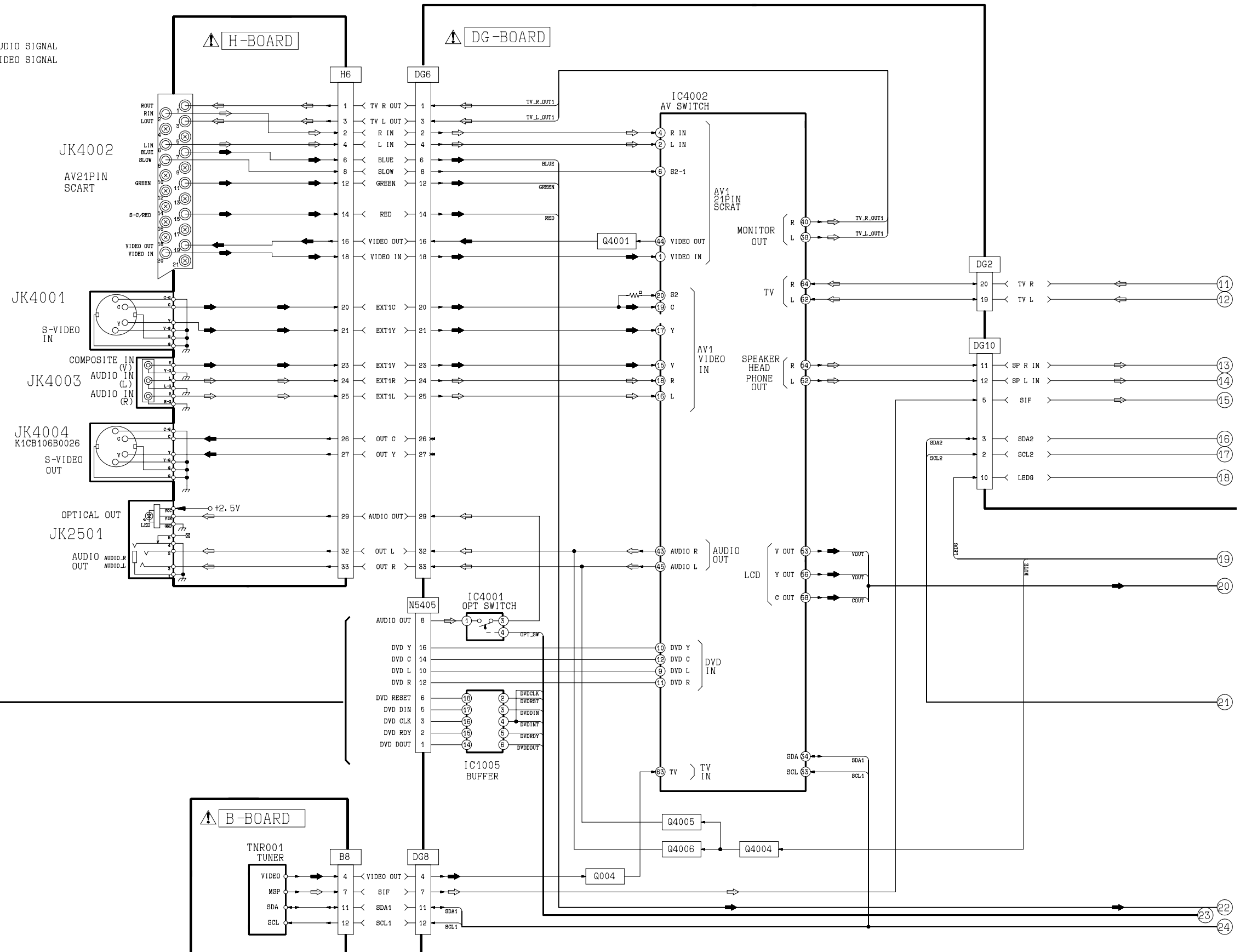
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(DVD MECHA)

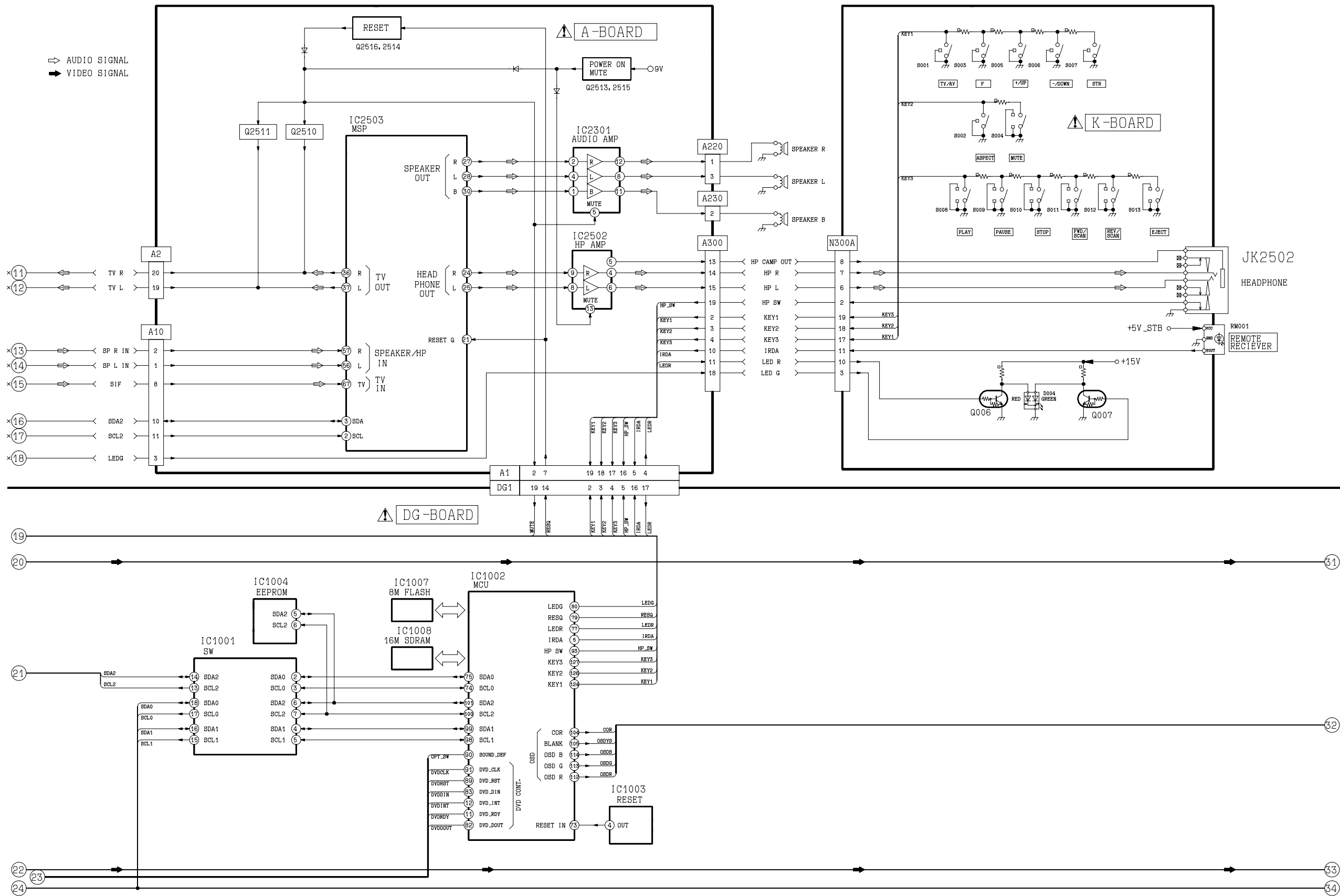


TX-15LV1
Signal Block Diagram

TX-15LV1
Signal Block Diagram

⇒ AUDIO SIGNAL
➡ VIDEO SIGNAL





TX-15LV1 Signal Block Diagram

TX-15LV1 Signal Block Diagram

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16

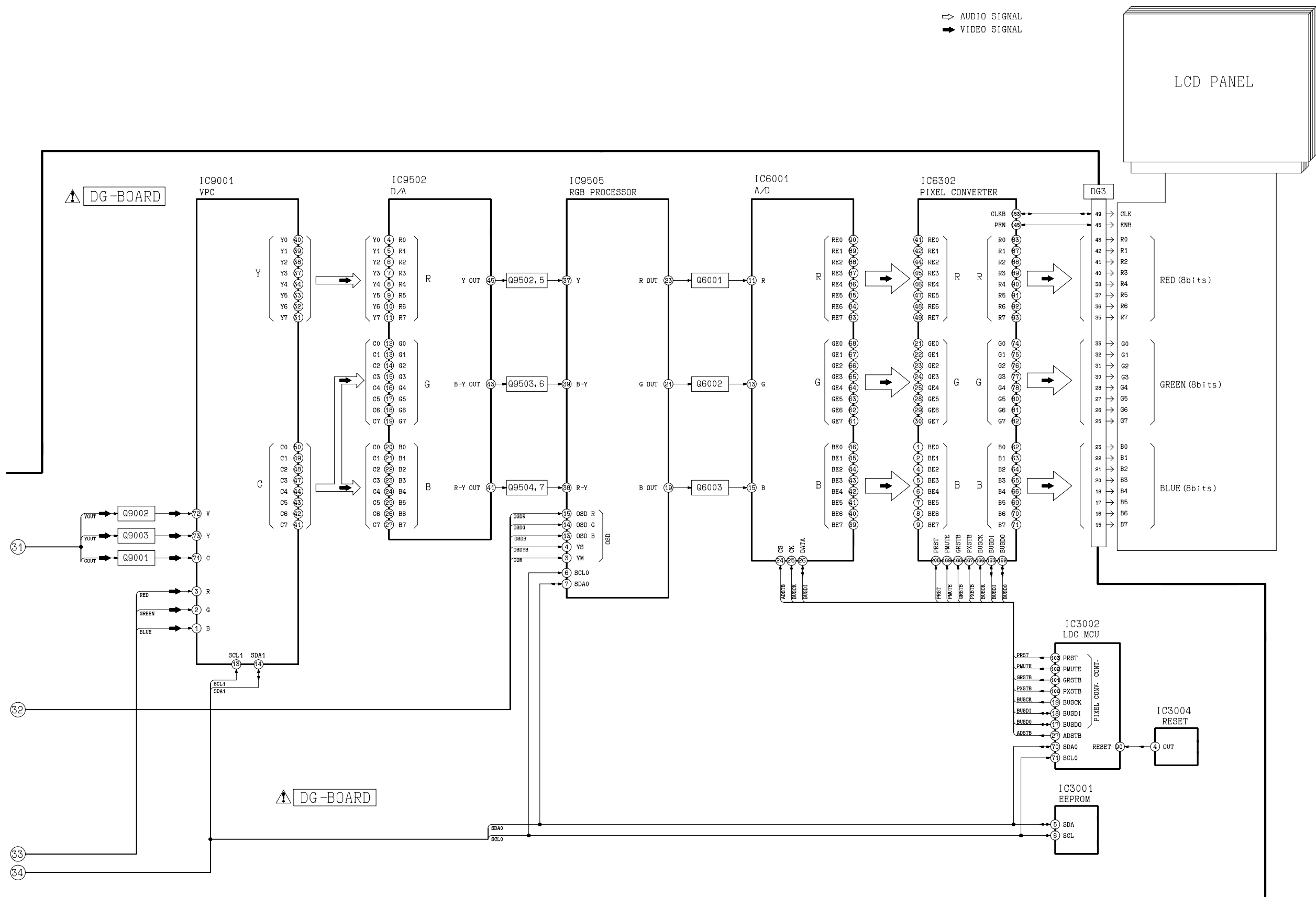
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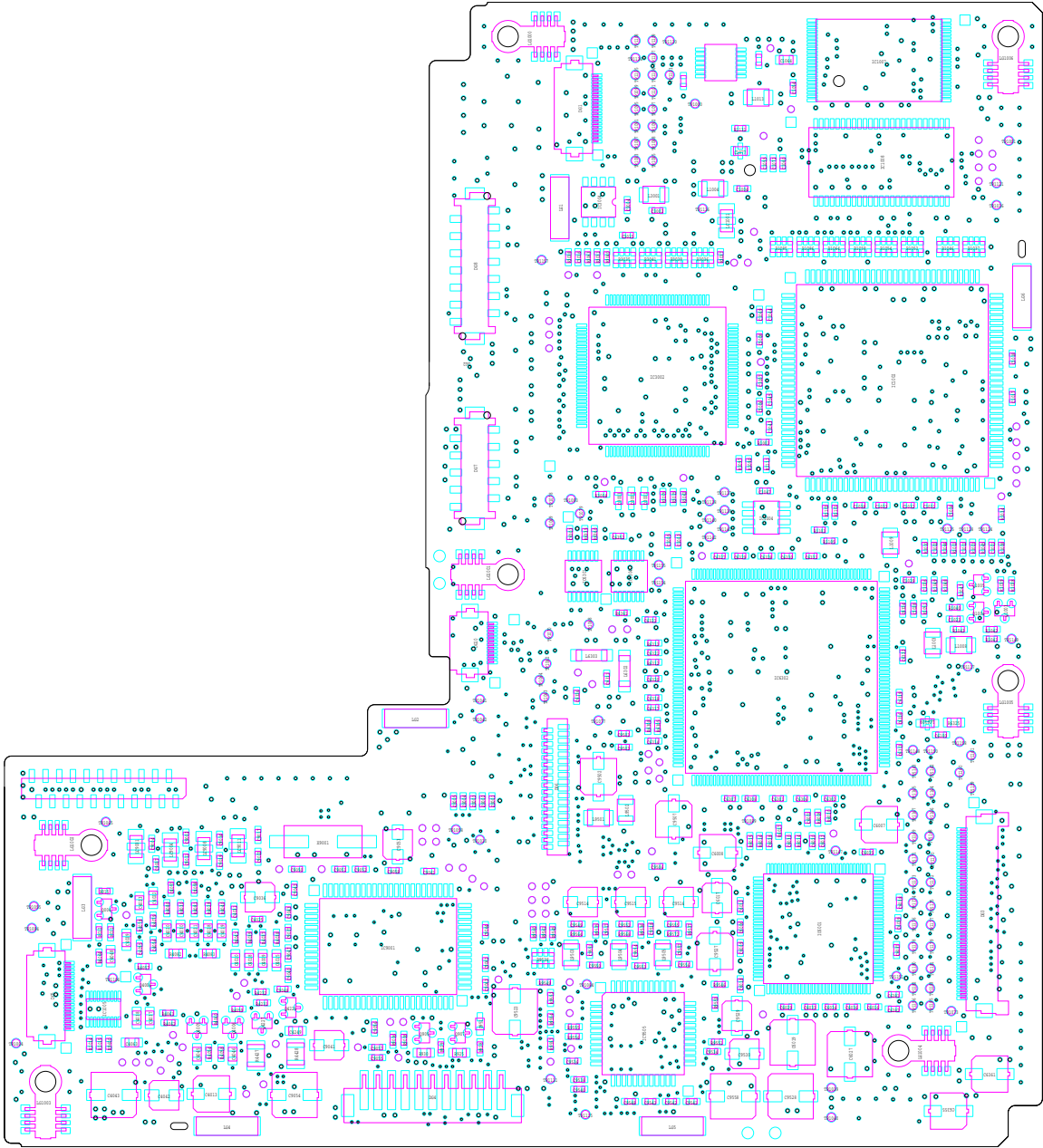
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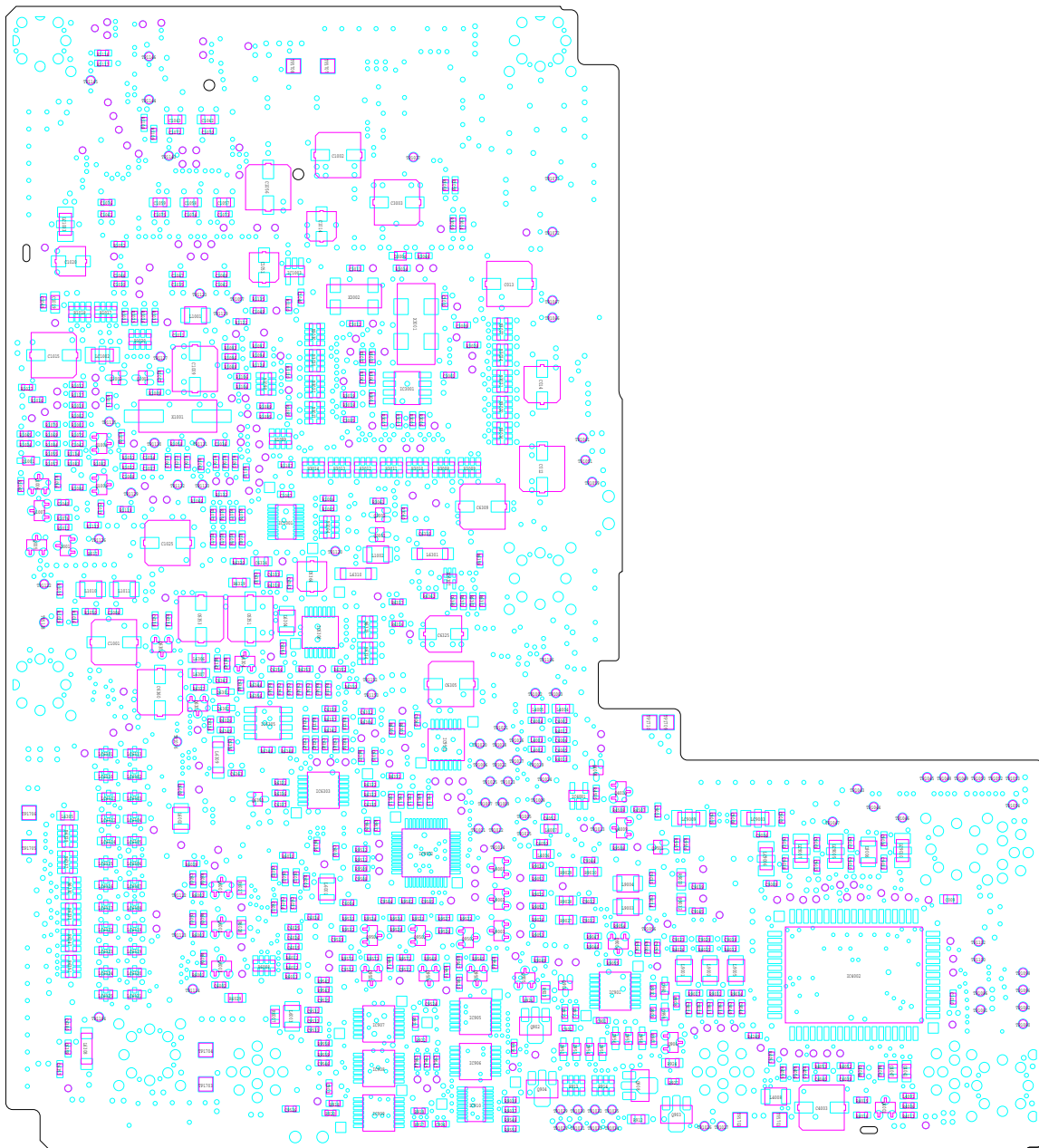
TX-15LV1 Signal Block Diagram

TX-15LV1 Signal Block Diagram

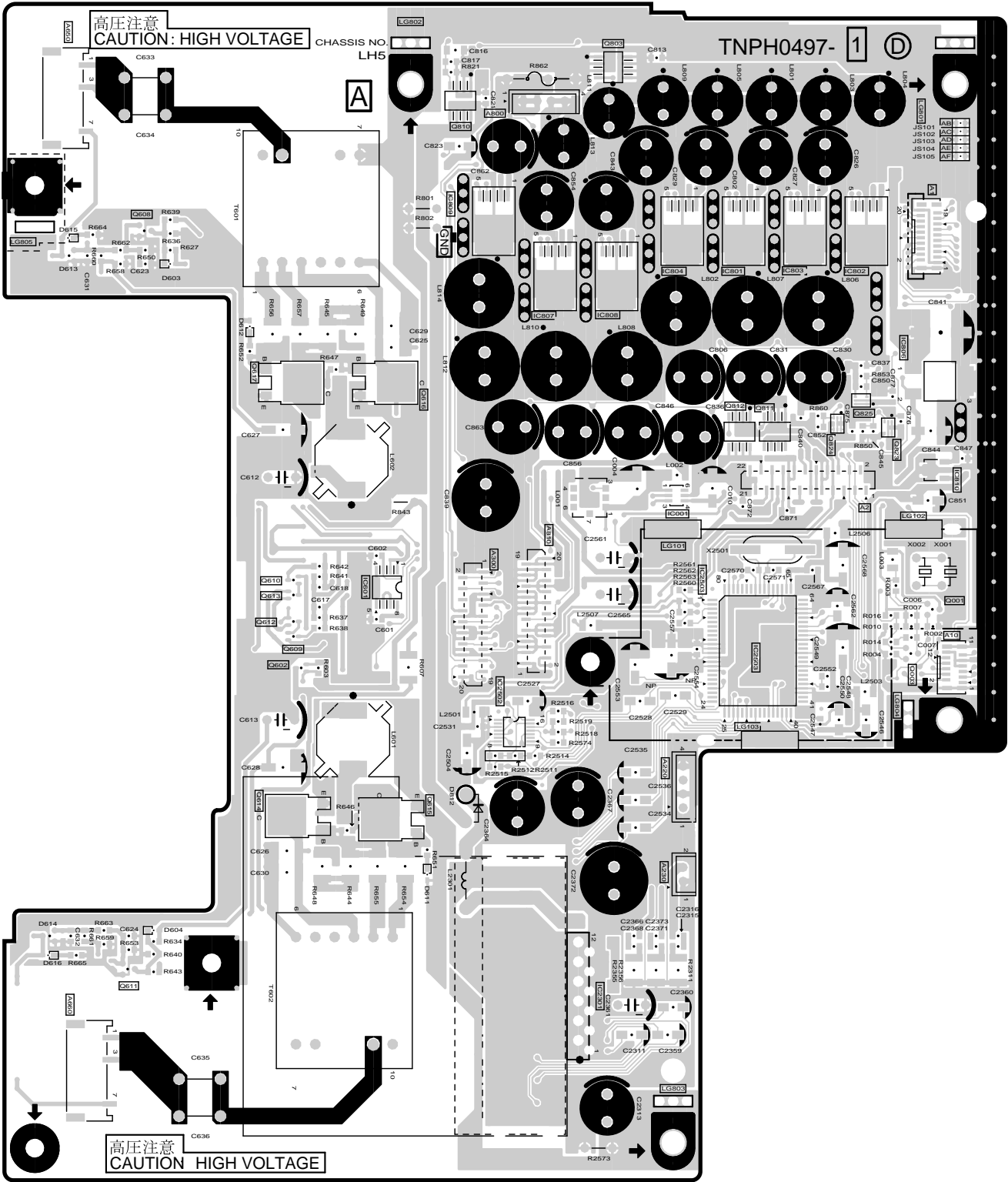
DG BOARD (COMPONENT SIDE)



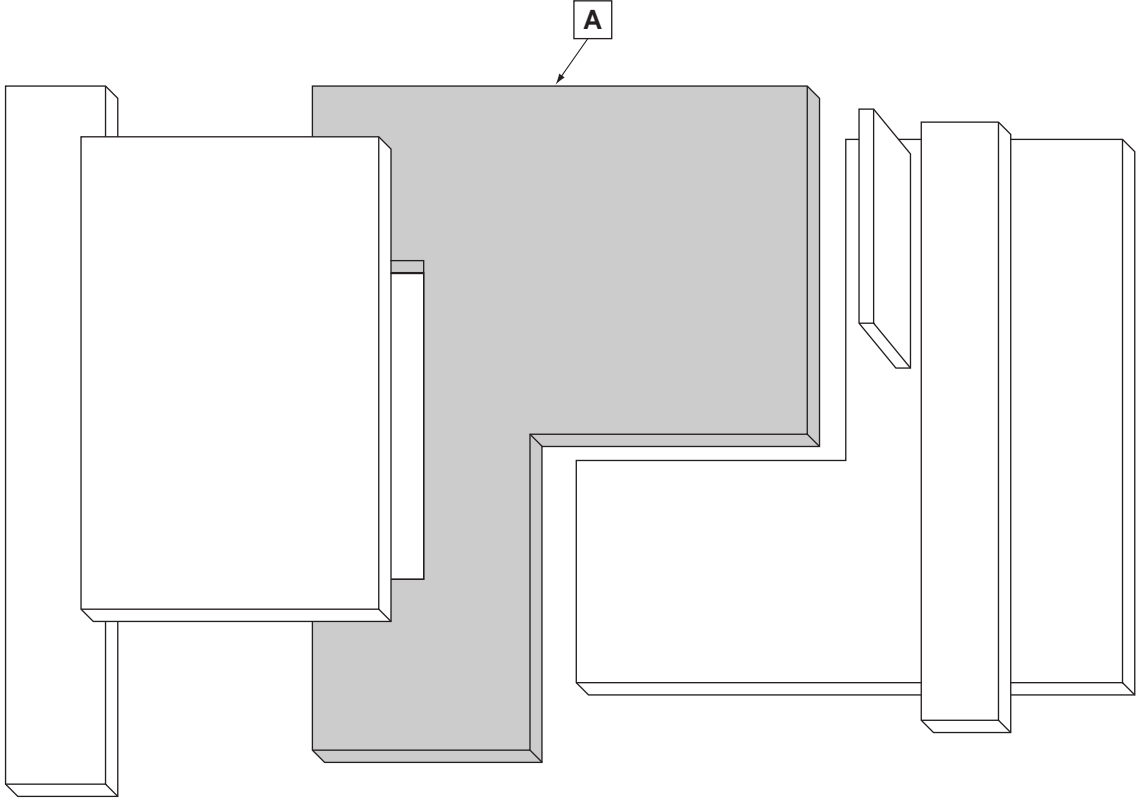
DG BOARD (FOIL SIDE)



A-BOARD (COMPONENT SIDE)
TXN/A10GMK



TX-15LV1
A-Board TXN/A10GMK

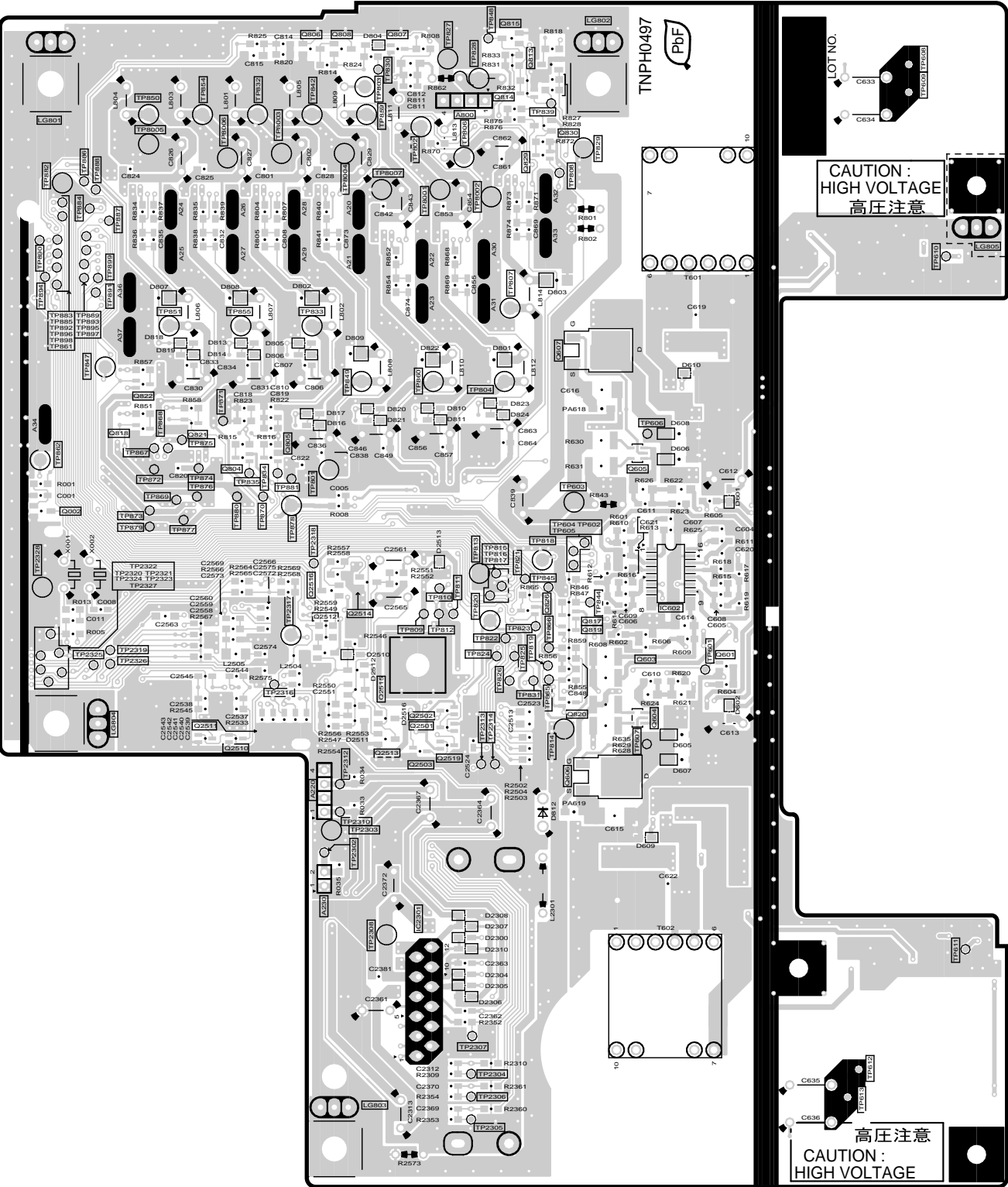


Parts Location

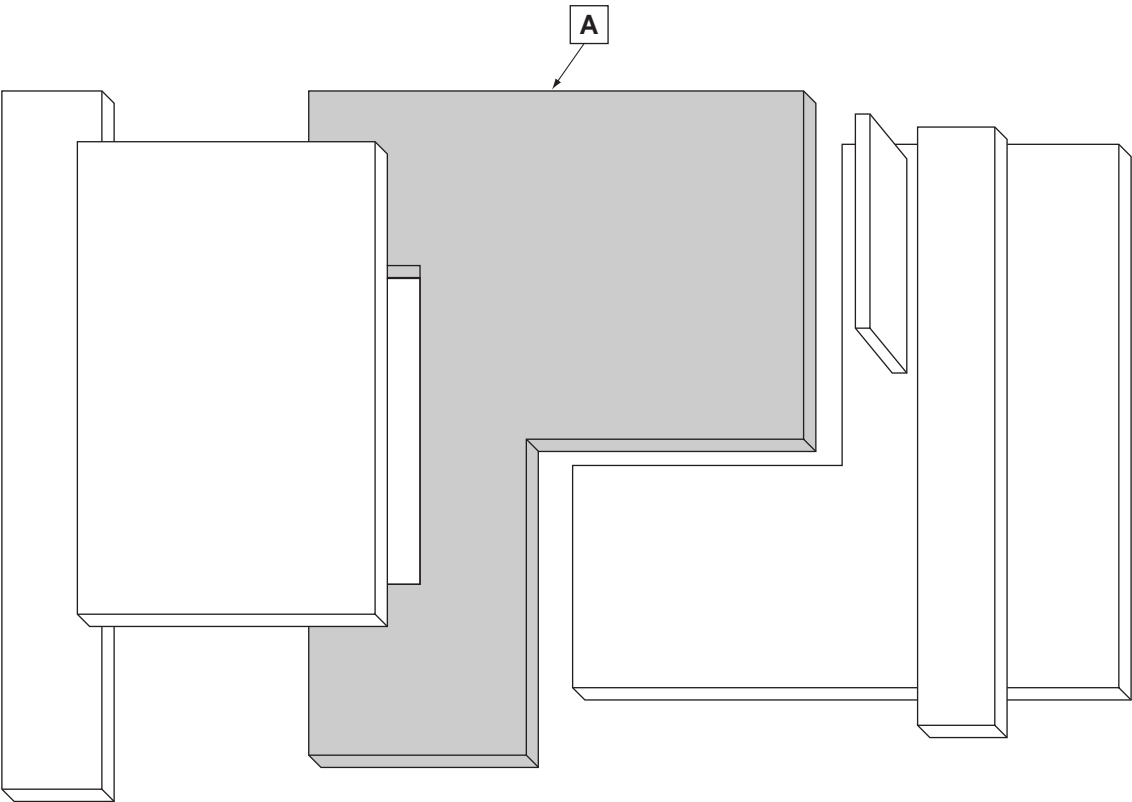
A-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR		Q810 Q811 Q812 Q823 Q824 Q825	C-6 D-4 D-4 E-4 D-4 E-4
IC001	D-4	Q001	E-3		
IC601	B-3	Q003	E-3		
IC801	D-5	Q602	B-3		
IC802	E-5	Q608	A-5		
IC803	D-5	Q609	B-3		
IC804	D-5	Q610	B-3		
IC806	E-5	Q611	A-2		
IC807	C-5	Q612	B-3		
IC808	C-5	Q613	B-3		
IC809	C-5	Q614	B-2		
IC810	E-4	Q615	C-2		
IC2301	C-2	Q616	C-4		
IC2502	C-3	Q617	B-4		
IC2503	D-3	Q803	C-6		

TX-15LV1
A-Board TXN/A10GMK

A-BOARD (FOIL SIDE)
TXN/A10GMK



TX-15LV1
A-Board TXN/A10GMK



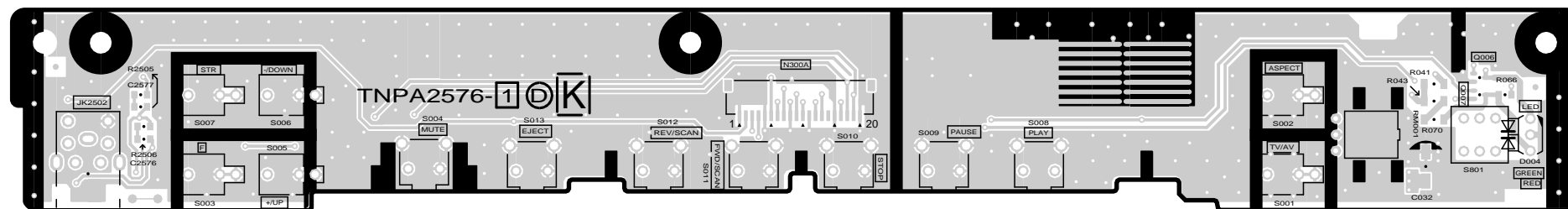
Parts Location

A-BOARD (FOIL SIDE)									
IC		Q2512	B-3	TP814	C-3	TP861	A-5	TP899	A-5
IC602	D-3	Q2513	B-3	TP815	C-4	TP867	A-4	TP2302	B-2
	C-2	Q2514	B-3	TP816	C-4	TP868	A-4	TP2303	B-2
TRANSISTOR		Q2515	B-3	TP817	C-4	TP869	A-4	TP2304	C-1
Q002	A-4	Q2516	B-3	TP818	C-4	TP870	B-4	TP2305	C-1
	D-3	Q2519	C-3	TP819	C-3	TP871	B-4	TP2306	C-1
Q601	D-3	TP		TP820	C-3	TP872	A-4	TP2307	C-1
Q603	D-3	TP601	D-3	TP821	C-4	TP873	A-4	TP2308	B-2
Q604	D-3	TP602	C-4	TP822	C-3	TP874	B-4	TP2310	B-2
Q605	D-4	TP604	C-4	TP823	C-3	TP875	B-4	TP2312	B-3
Q606	C-3	TP605	C-3	TP824	C-3	TP876	B-4	TP2313	C-3
Q607	C-5	TP605	C-4	TP825	C-3	TP877	B-4	TP2314	C-3
Q804	B-4	TP606	D-4	TP826	C-3	TP878	B-4	TP2316	B-3
Q805	B-4	TP607	D-3	TP827	C-6	TP879	A-4	TP2317	B-3
Q806	B-6	TP608	E-6	TP828	C-6	TP880	B-4	TP2318	B-4
Q807	C-6	TP609	E-6	TP829	C-5	TP881	B-4	TP2319	A-3
Q808	B-6	TP610	E-5	TP830	B-6	TP882	A-5	TP2320	A-3
Q813	C-6	TP611	E-2	TP831	C-3	TP883	A-5	TP2321	A-3
Q814	C-6	TP612	E-1	TP832	B-6	TP884	A-5	TP2322	A-4
Q815	C-6	TP613	E-1	TP833	B-5	TP885	A-5	TP2323	A-3
Q817	C-3	TP801	B-4	TP834	B-4	TP885	C-3	TP2324	A-3
Q818	A-4	TP802	C-5	TP835	B-4	TP886	A-5	TP2325	A-3
Q819	C-3	TP803	B-6	TP839	C-6	TP887	A-5	TP2326	A-3
Q820	C-3	TP803	C-4	TP842	B-6	TP888	A-5	TP2327	A-3
Q821	B-4	TP804	C-4	TP844	C-3	TP889	A-5	TP2328	A-4
Q822	A-4	TP806	C-5	TP845	C-3	TP890	A-5	TP8001	C-5
Q826	C-3	TP807	C-5	TP847	A-4	TP891	A-5	TP8002	C-5
Q829	C-5	TP808	C-5	TP848	C-6	TP892	A-5	TP8003	B-5
Q830	C-5	TP809	C-3	TP850	A-6	TP893	A-5	TP8004	B-5
Q2501	C-3	TP810	C-3	TP851	B-5	TP894	A-5	TP8005	A-5
Q2502	C-3	TP811	C-3	TP854	B-6	TP895	A-5	TP8006	B-5
Q2503	C-3	TP812	C-3	TP855	B-5	TP896	A-5	TP8007	B-5
Q2510	B-3	TP813	C-4	TP859	B-6	TP897	A-5		
Q2511	B-3			TP860	C-4	TP898	A-5		

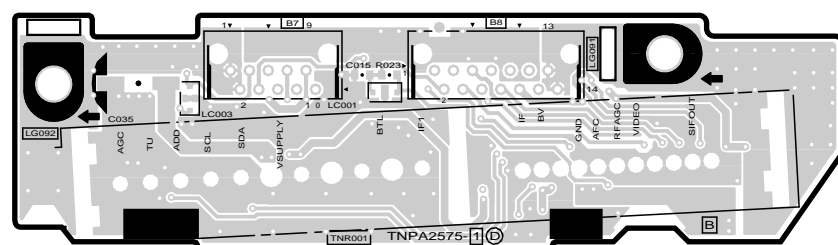
TX-15LV1
A-Board TXN/A10GMK

K-BOARD (COMPONENT SIDE)

TNPA2576

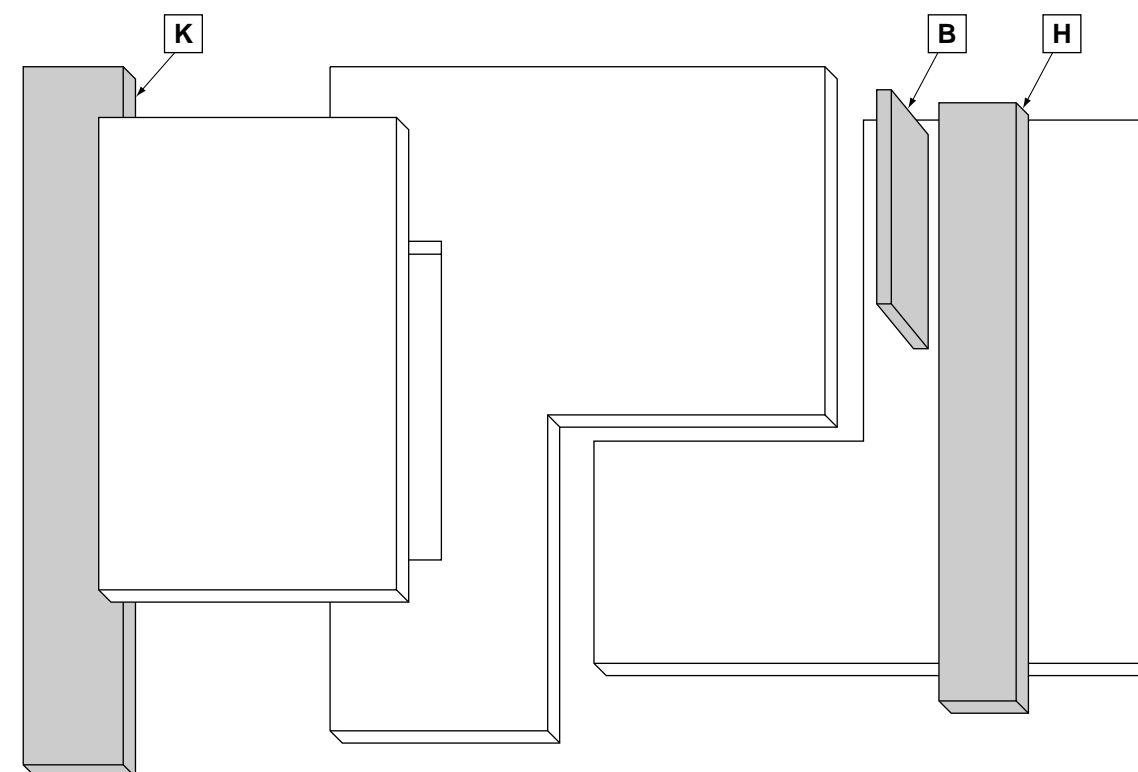
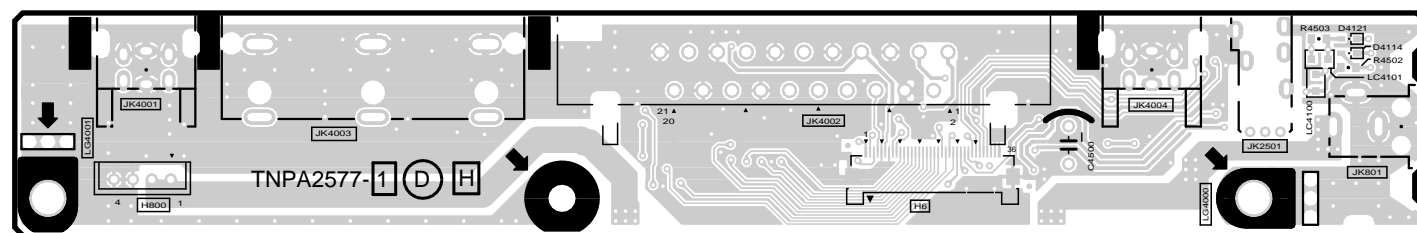


B-BOARD (COMPONENT SIDE)
TNPA2575



H-BOARD (COMPONENT SIDE)

TNPA2577



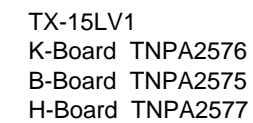
6



4



2



6
5
4
3
2
1

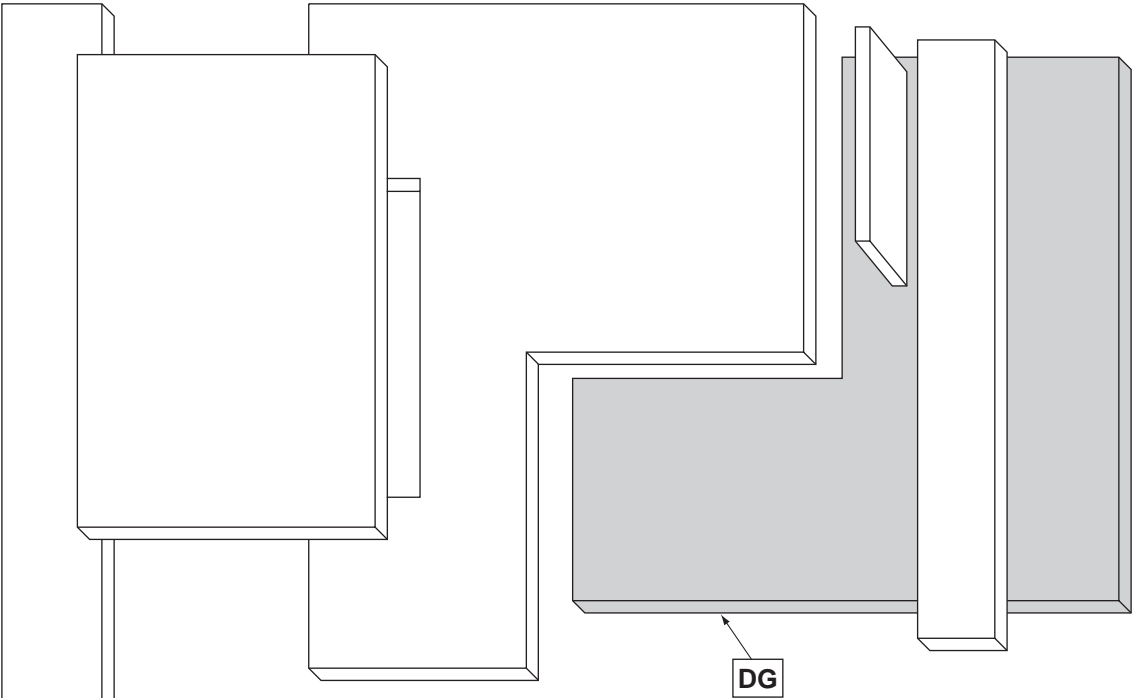
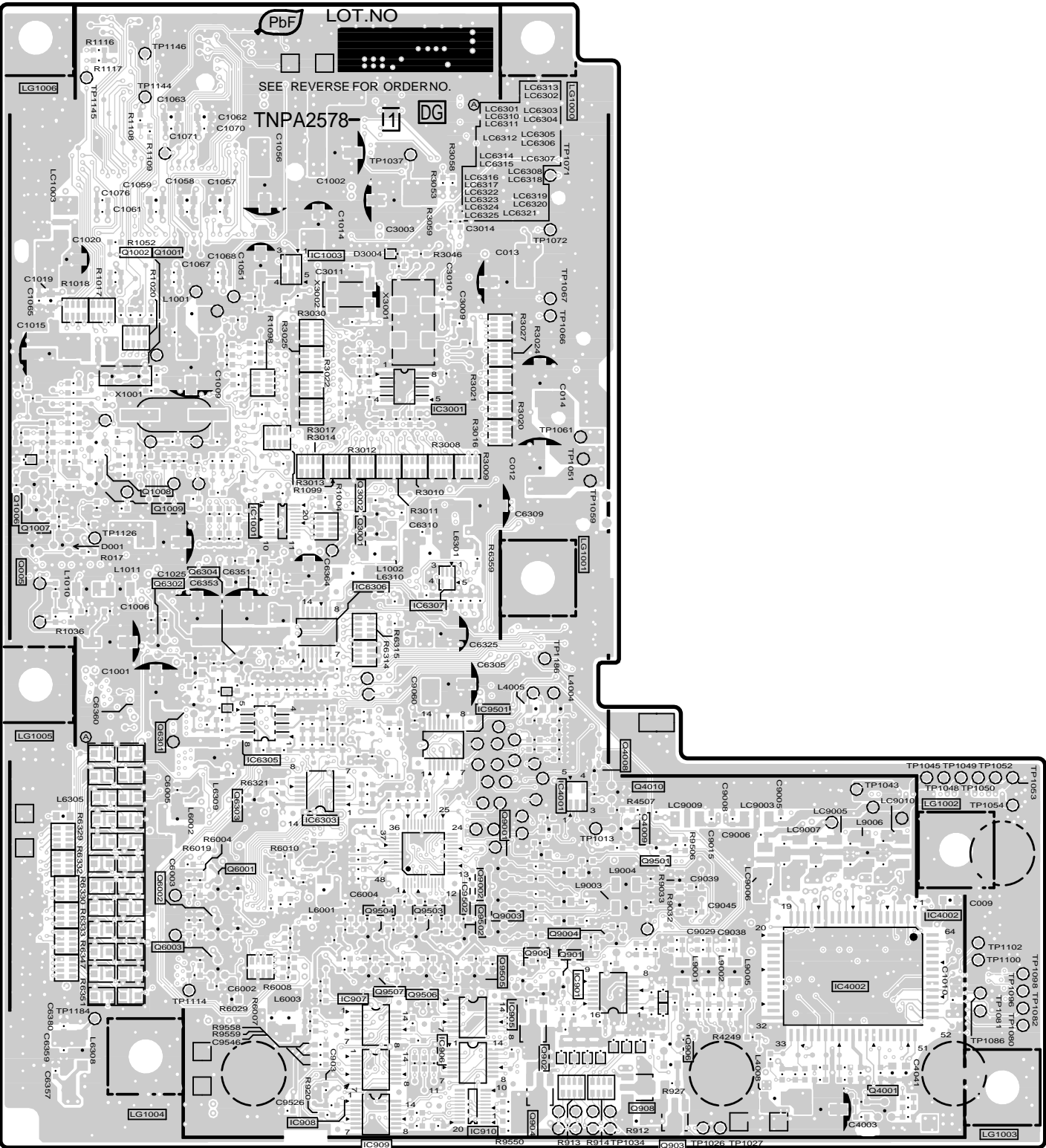


A horizontal number line with five tick marks labeled A, B, C, D, and E from left to right.



DG-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR		TP	
IC1002	E-4	Q004	A-2	TP1000	D-5
IC1004	D-3	Q907	C-1	TP1001	E-5
IC1005	A-1	Q909	B-2	TP1004	A-1
IC1006	D-6	Q1003	E-3	TP1010	C-2
IC1007	D-6	Q1004	E-3	TP1038	E-5
IC1008	D-5	Q1005	E-3	TP1041	C-3
IC3002	D-4	Q4004	A-1	TP1042	C-3
IC3004	C-5	Q4005	B-1	TP1055	A-2
IC6001	D-2	Q4006	B-1	TP1058	C-2
IC6301	C-3	Q4227	B-2	TP1062	C-3
IC6302	D-3	Q4228	B-1	TP1063	C-3
IC6304	D-3			TP1064	C-3
IC9001	C-2			TP1065	A-2
IC9505	D-1			TP1069	C-3
				TP1077	C-3
				TP1078	C-4
				TP1094	A-2
				TP1115	C-1
				TP1116	D-5
				TP1121	E-5
				TP1157	C-5
				TP1159	E-2
				TP1160	E-2
				TP1161	E-2

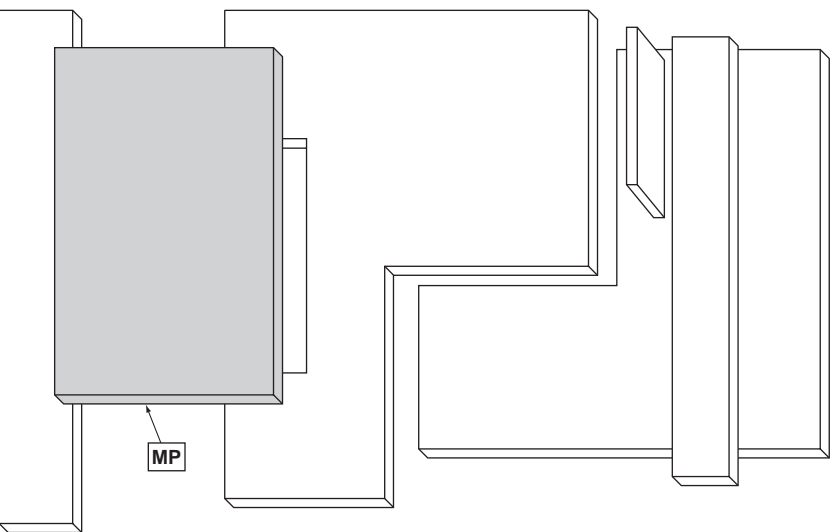
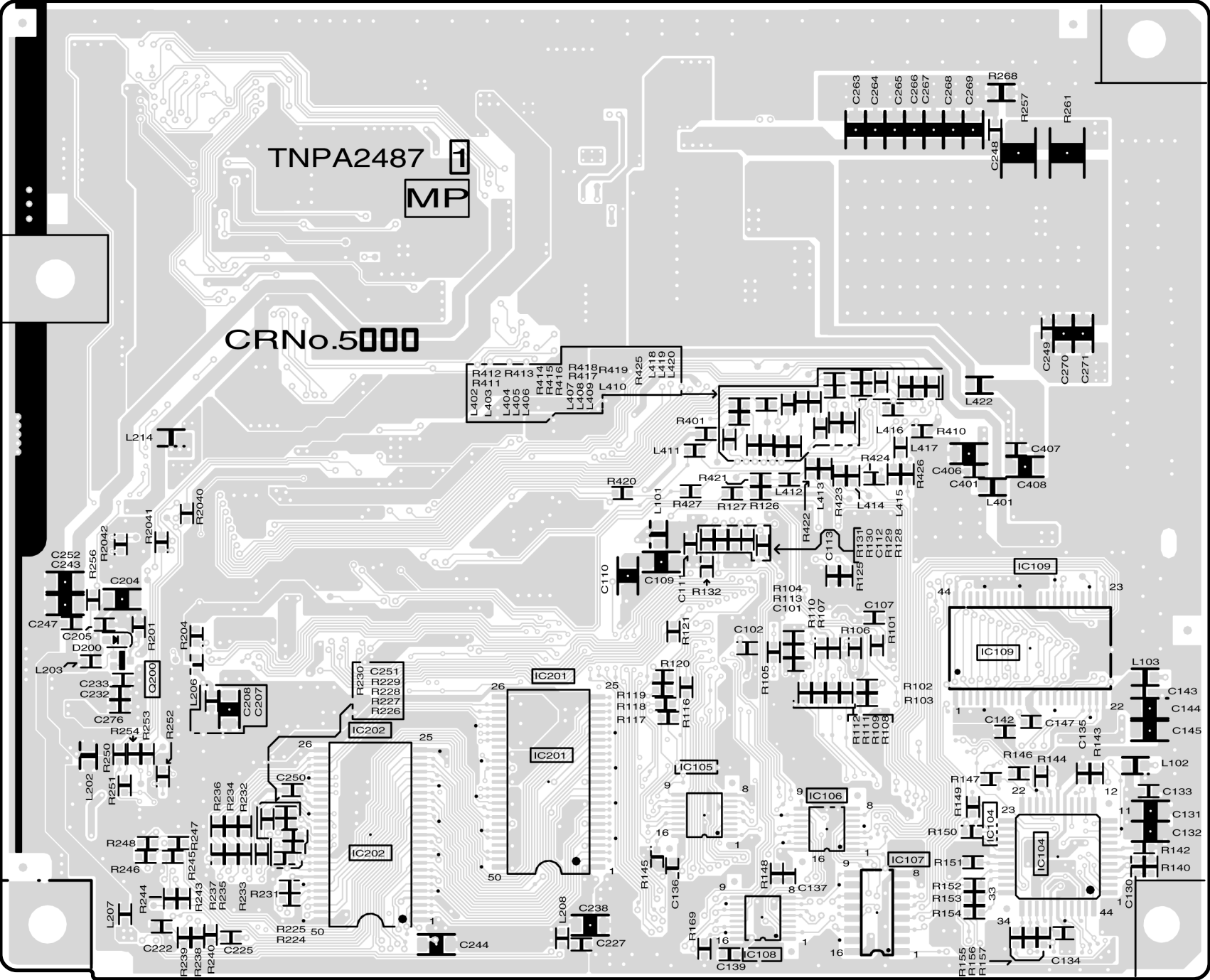
DG-BRD(FOIL SIDE)
TXNDG10GMK



Parts Location

DG-BRD (FOIL SIDE)					
IC		Q4009	D-2	TP1061	C-4
IC905	C-1	Q4010	D-2	TP1066	C-4
IC907	B-1	Q6001	B-2	TP1067	C-5
IC908	B-1	Q6002	A-2	TP1071	C-5
IC910	C-1	Q6003	A-2	TP1072	C-5
IC1001	B-3	Q6301	A-3	TP1080	E-1
IC1003	B-5	Q6302	A-3	TP1081	E-1
IC3001	C-4	Q6303	B-2	TP1082	E-1
IC4001	C-2	Q6304	B-3	TP1086	E-1
IC4002	E-1	Q9001	C-2	TP1096	E-1
IC6303	B-2	Q9002	C-2	TP1098	E-1
IC6305	B-2	Q9003	C-2	TP1100	E-2
IC6306	B-3	Q9004	C-2	TP1102	E-2
IC6307	C-3	Q9501	D-2	TP1114	B-1
IC9501	C-3	Q9502	C-2	TP1126	A-3
IC9502	C-2	Q9503	C-2	TP1144	A-5
TRANSISTOR		Q9504	B-2	TP1145	A-5
Q005	A-3	Q9505	C-2	TP1146	A-6
Q901	C-2	Q9506	C-1	TP1184	A-1
Q902	C-1	Q9507	B-1	TP1186	C-3
Q903	D-1	TP			
Q904	C-1	TP1013	C-2		
Q905	C-2	TP1026	D-1		
Q906	D-1	TP1027	D-1		
Q908	D-1	TP1034	D-1		
Q1001	A-5	TP1037	C-5		
Q1002	A-5	TP1043	E-2		
Q1006	A-4	TP1045	E-2		
Q1007	A-3	TP1048	E-2		
Q1008	A-4	TP1049	E-2		
Q1009	A-4	TP1050	E-2		
Q3001	B-3	TP1051	C-4		
Q3002	B-4	TP1052	E-2		
Q4001	E-1	TP1053	E-2		
Q4008	D-2	TP1054	E-2		
		TP1059	C-4		

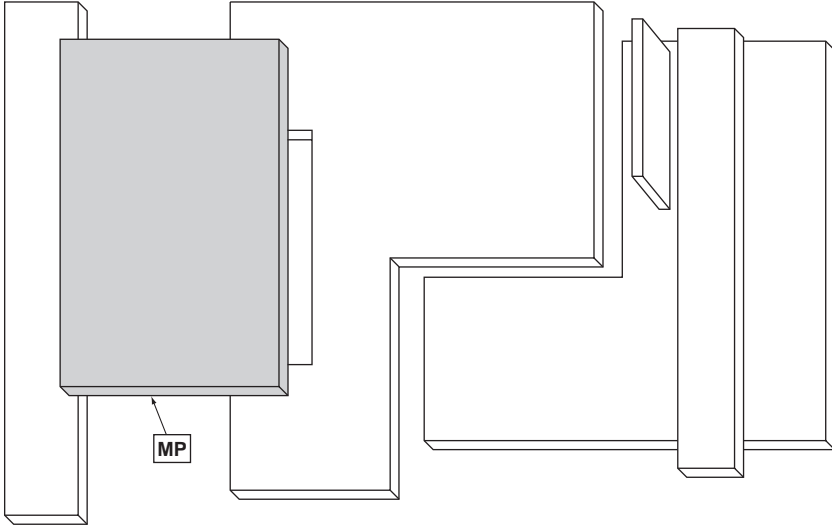
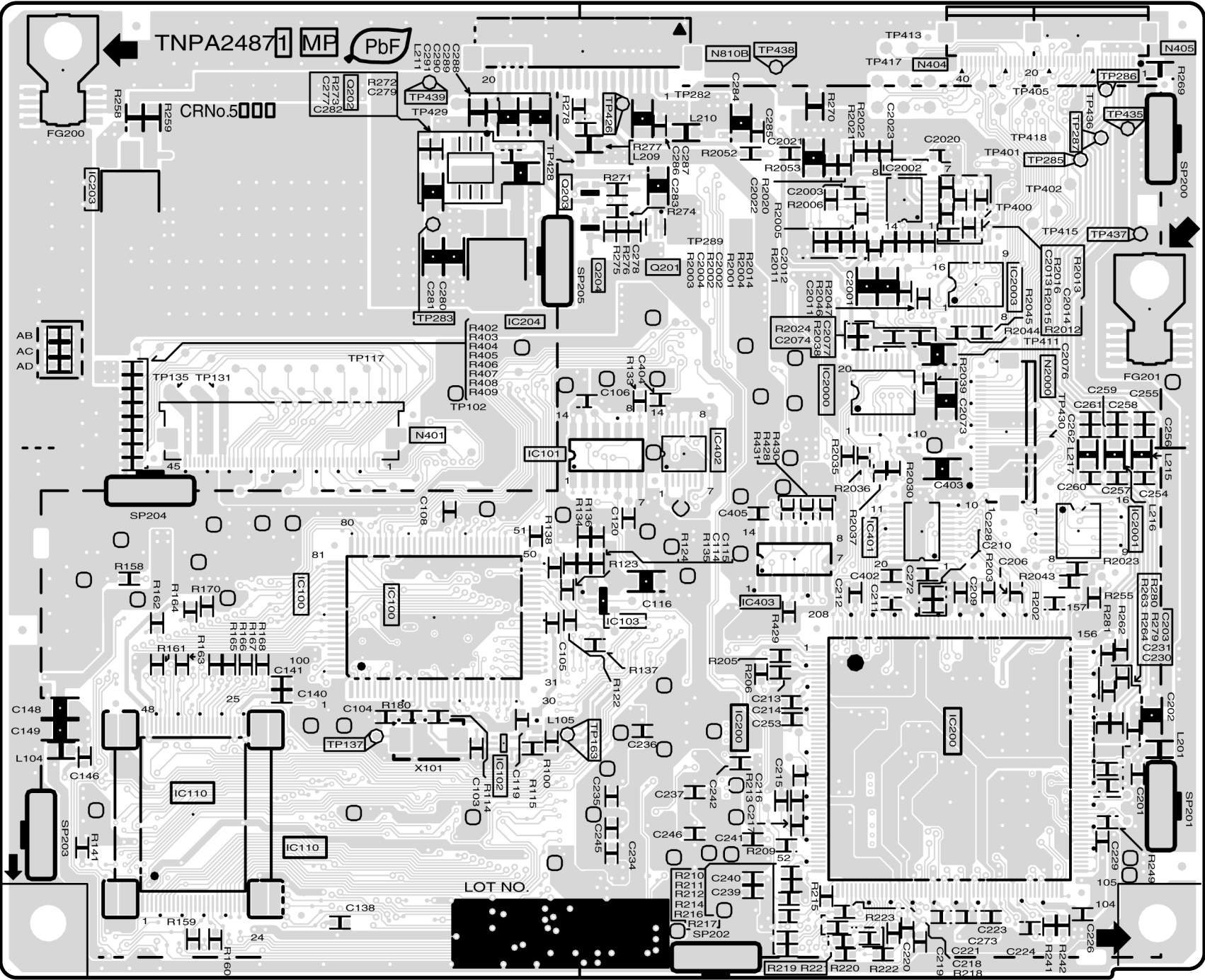
MP-BOARD (COMPONENT SIDE)
TXNMP10GMK



Parts Location

MP-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC5104	F-2	Q5200	B-2
IC5105	D-2		
IC5106	E-2		
IC5107	E-2		
IC5108	E-1		
IC5109	F-3		
IC5201	D-2		
IC5202	C-2		

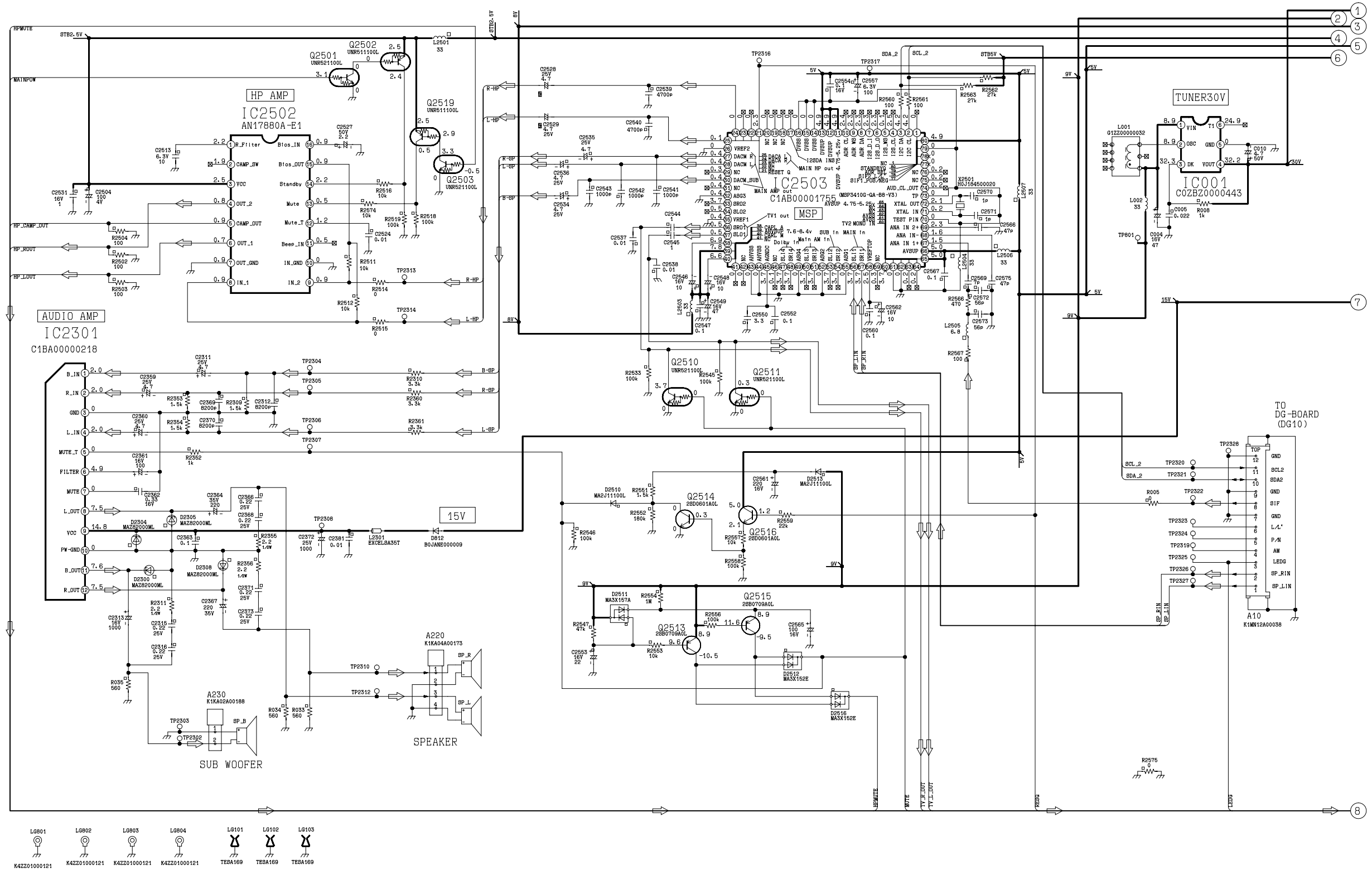
MP-BOARD (FOIL SIDE)
TXNMP10GMK



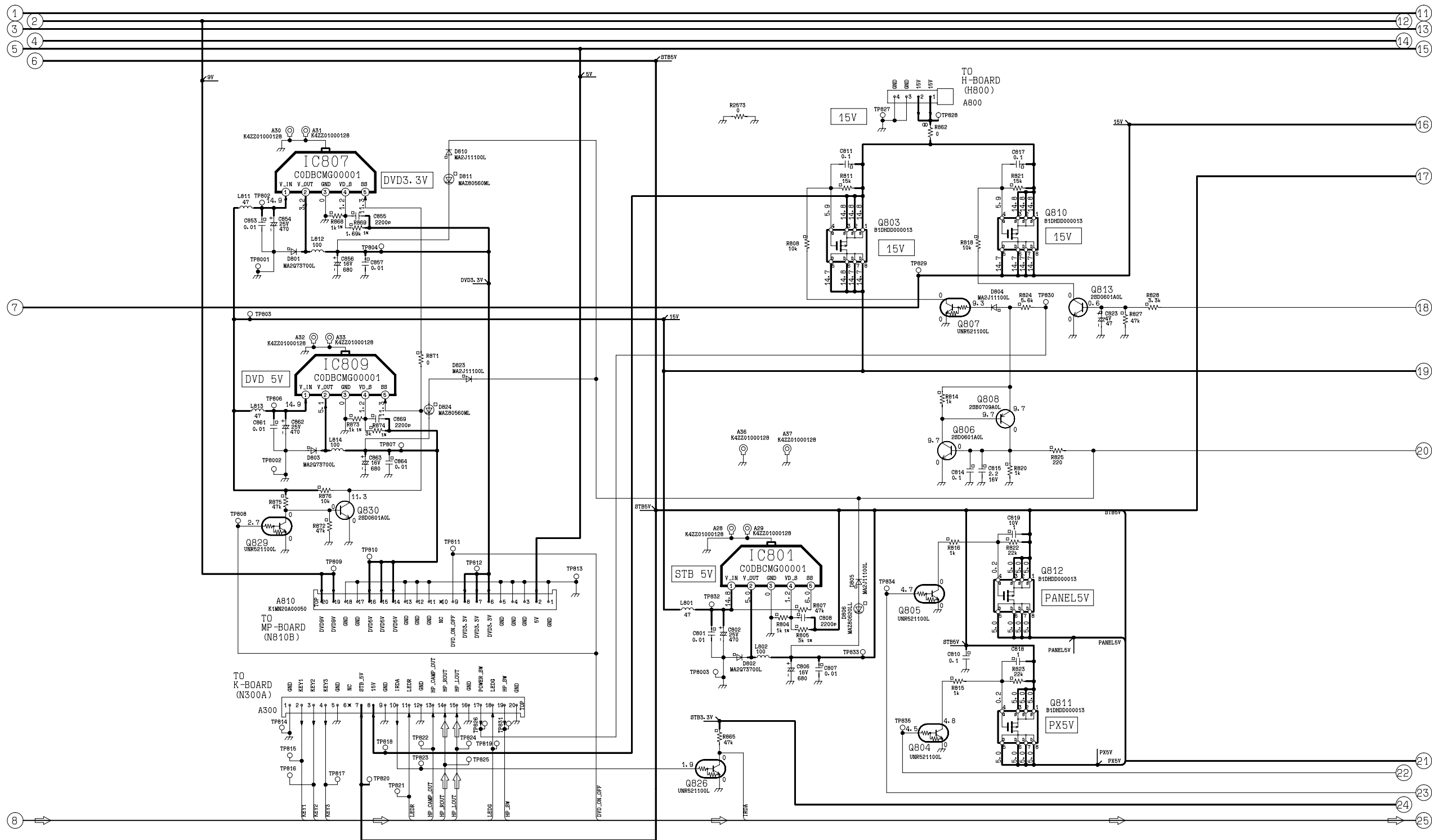
Parts Location

MP-BOARD (FOIL SIDE)					
IC		TRANSISTOR		TP	
		Q5201	Q5202		
IC2000	E-4	Q5203	Q5204	TP5289	D-4
IC2001	F-3			TP5400	F-5
IC2002	E-5			TP5401	F-5
IC2003	F-4			TP5402	F-5
IC5100	B-3			TP5405	F-5
IC5101	D-3			TP5411	F-4
IC5102	C-2			TP5413	E-5
IC5103	C-3			TP5415	F-4
IC5110	B-2			TP5417	E-5
IC5200	E-2			TP5418	F-5
IC5203	A-5			TP5426	D-5
IC5204	D-4			TP5428	D-5
IC5401	E-3			TP5429	C-5
IC5402	D-3			TP5430	F-4
IC5403	E-3			TP5435	F-5
				TP5436	F-5
				TP5437	F-4
				TP5438	E-5
				TP5439	C-5

⚠ A-BORD TXN/A10GMK (1/4)



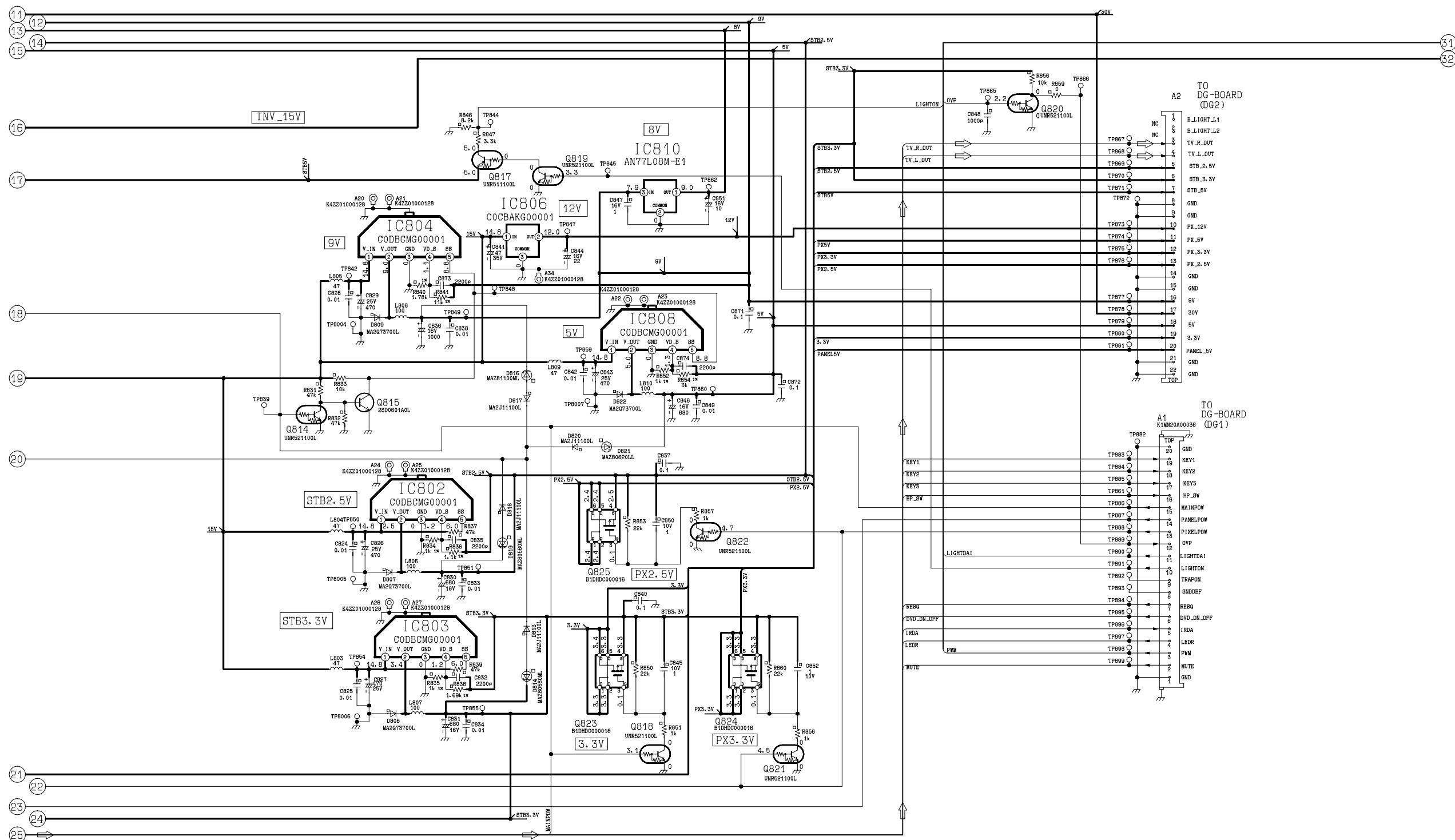
⚠ A-BOARD TXN/A10GMK (2/4)



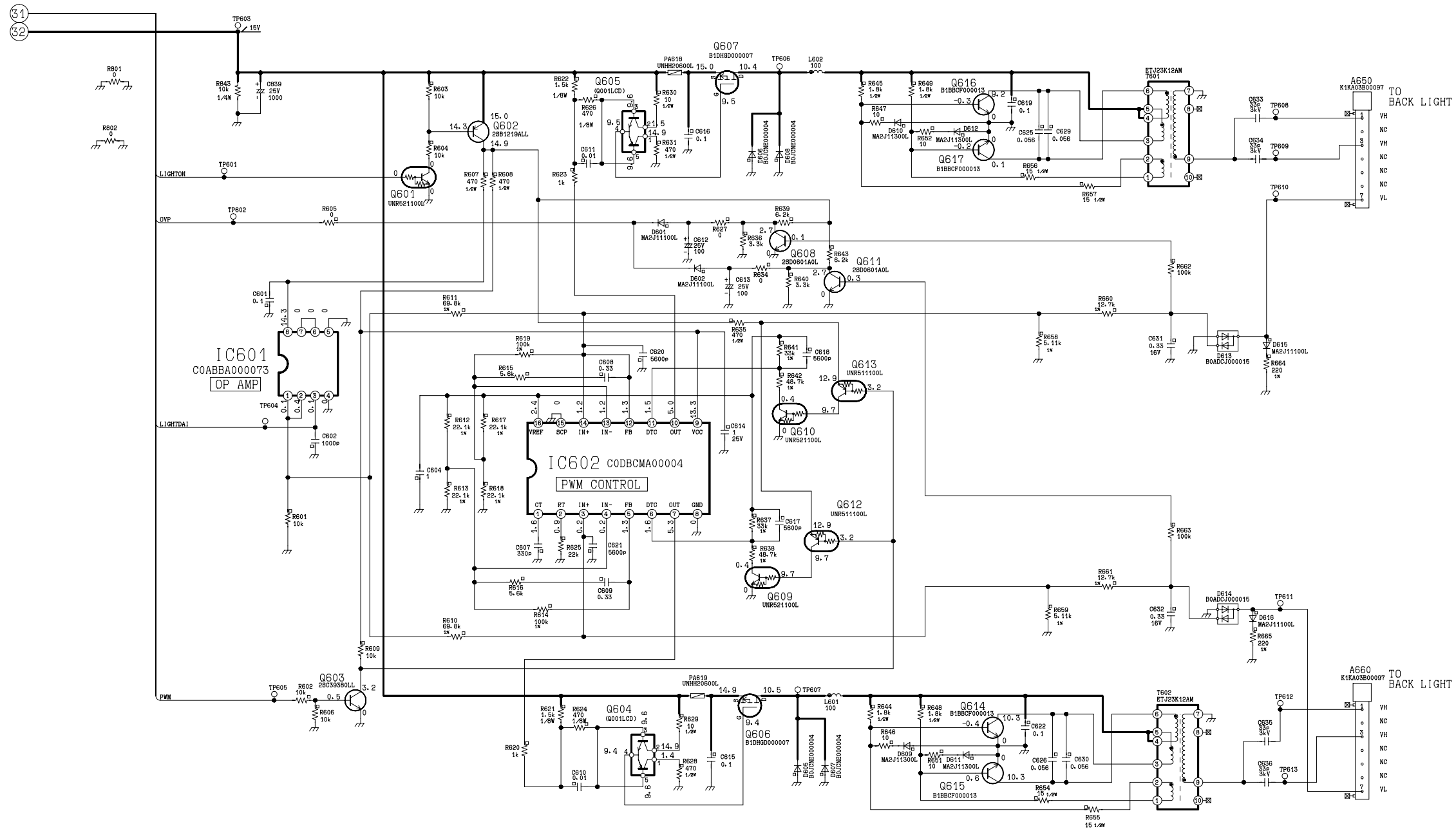
TX-15LV1
A-Board (2 of 4) Schematic Diagram

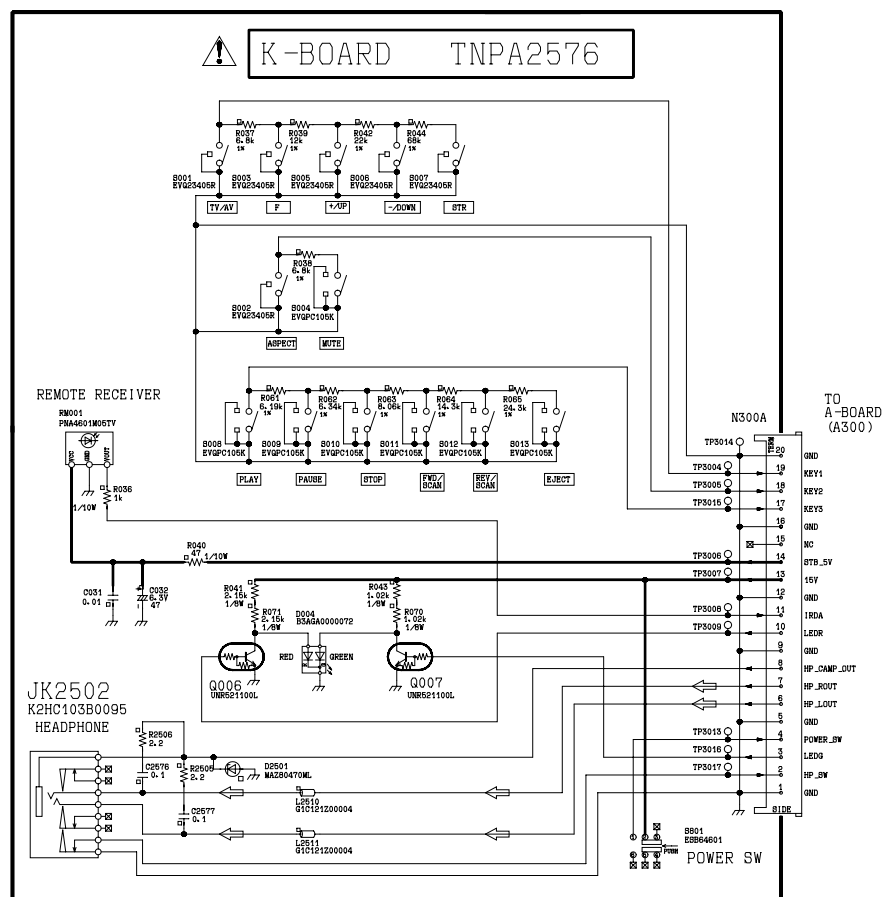
TX-15LV1
A-Board (2 of 4) Schematic Diagram

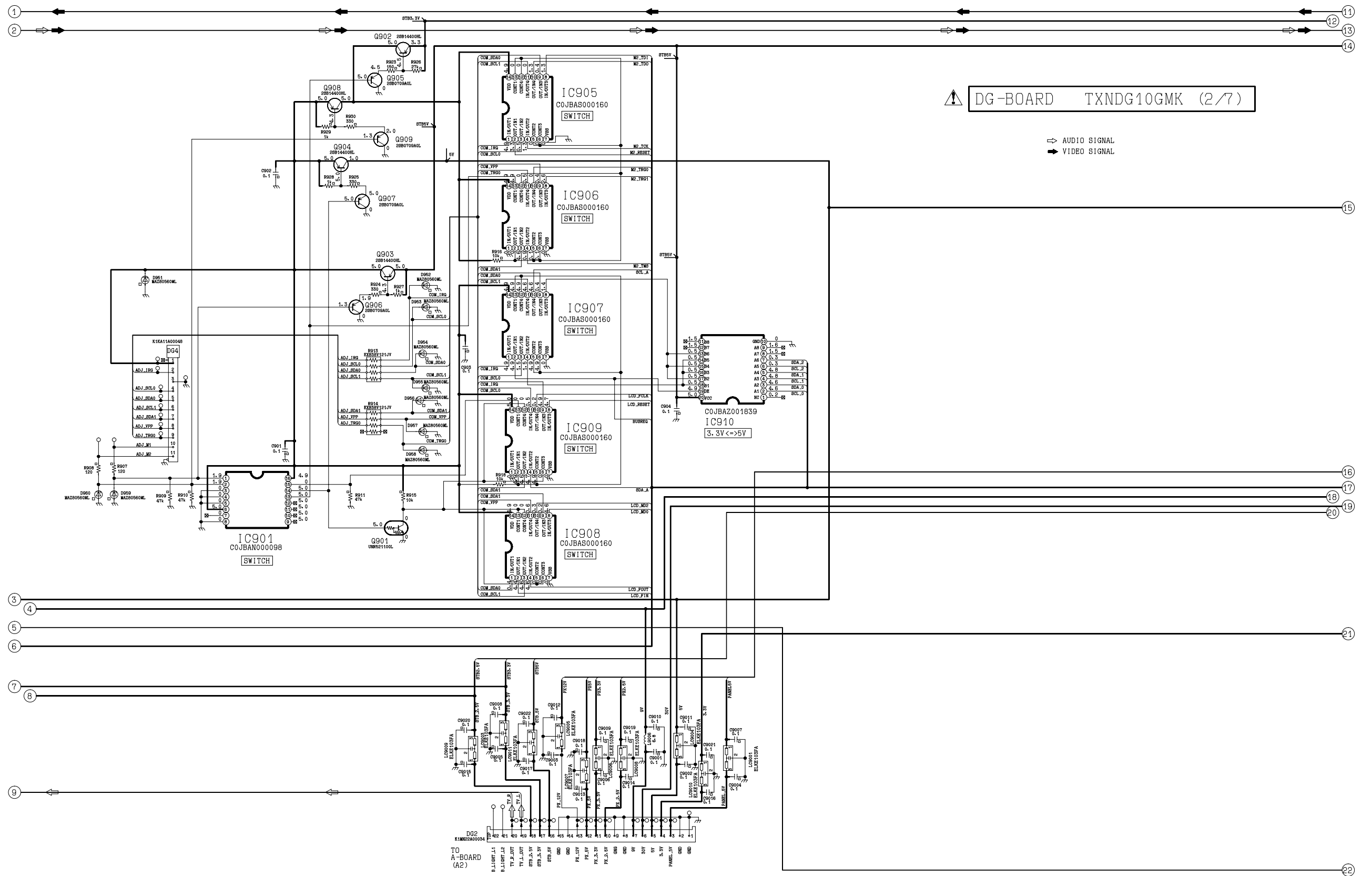
 A-BOARD TXN/A10GMK (3/4)

TX-15LV1
A-Board (3 of 4) Schematic DiagramTX-15LV1
A-Board (3 of 4) Schematic Diagram

⚠ A-BOARD TXN/A10GMK (4/4)



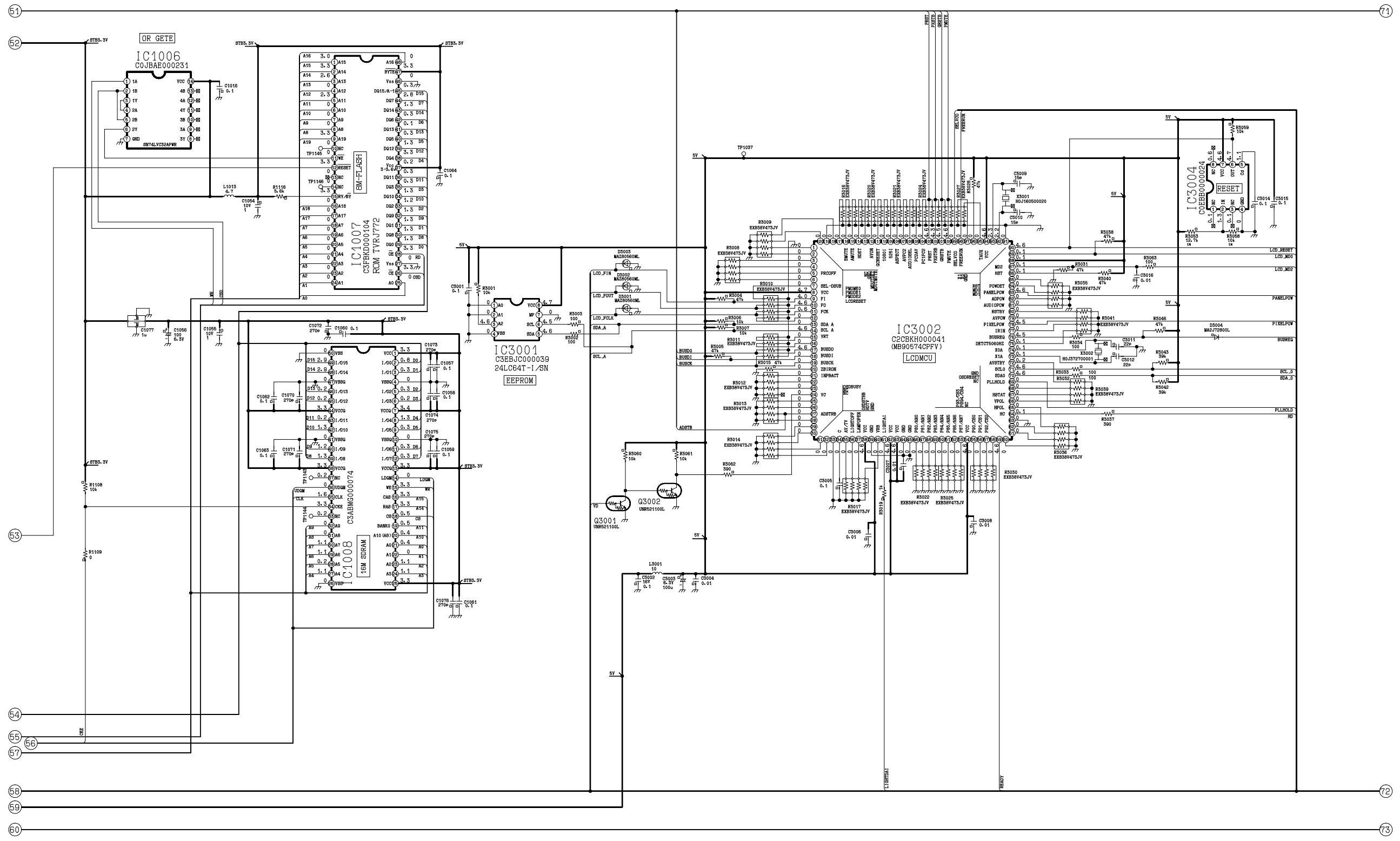




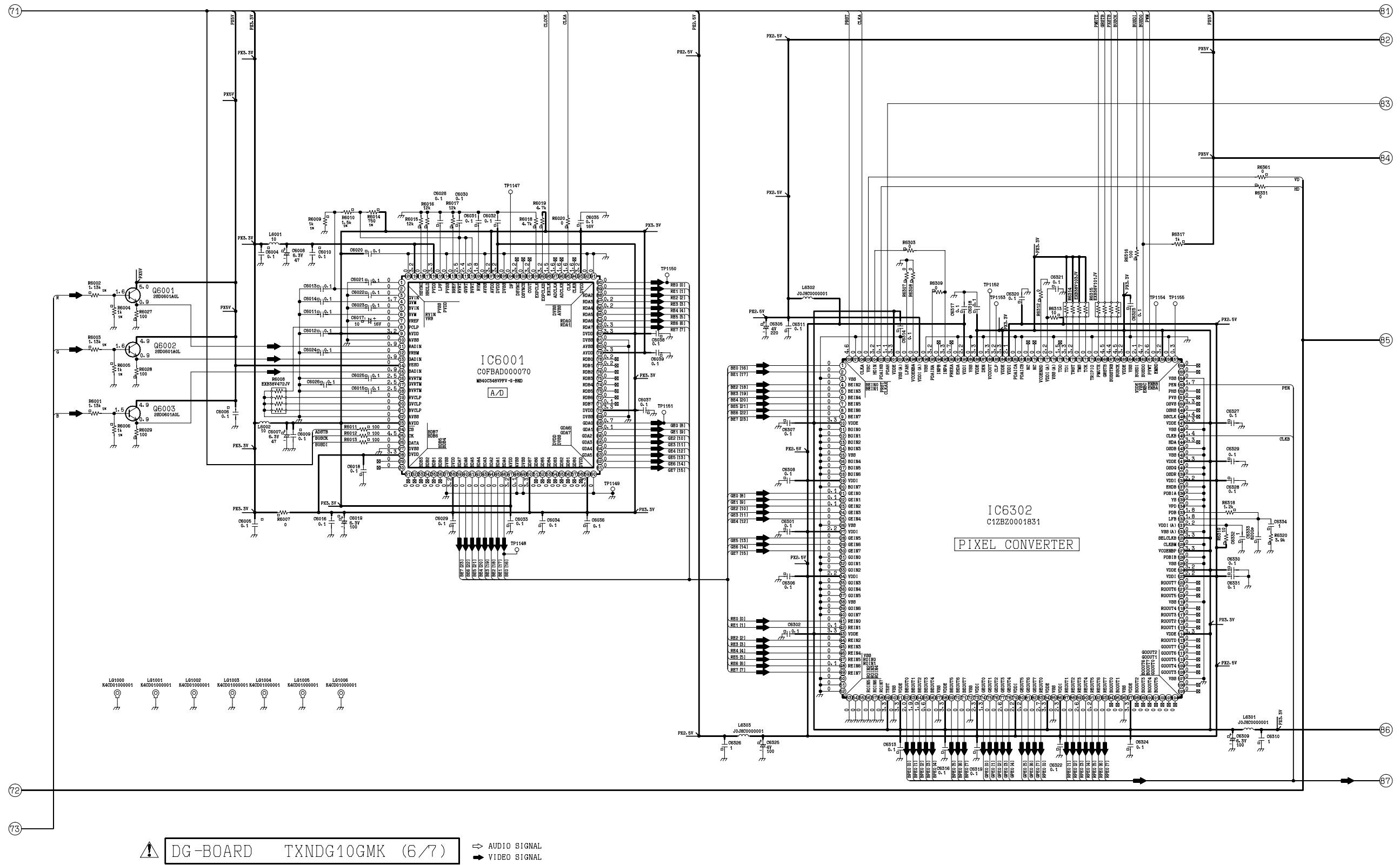
TX-15LV1
DG-Board (2 of 7) Schematic Diagram

TX-15LV1
DG-Board (2 of 7) Schematic Diagram





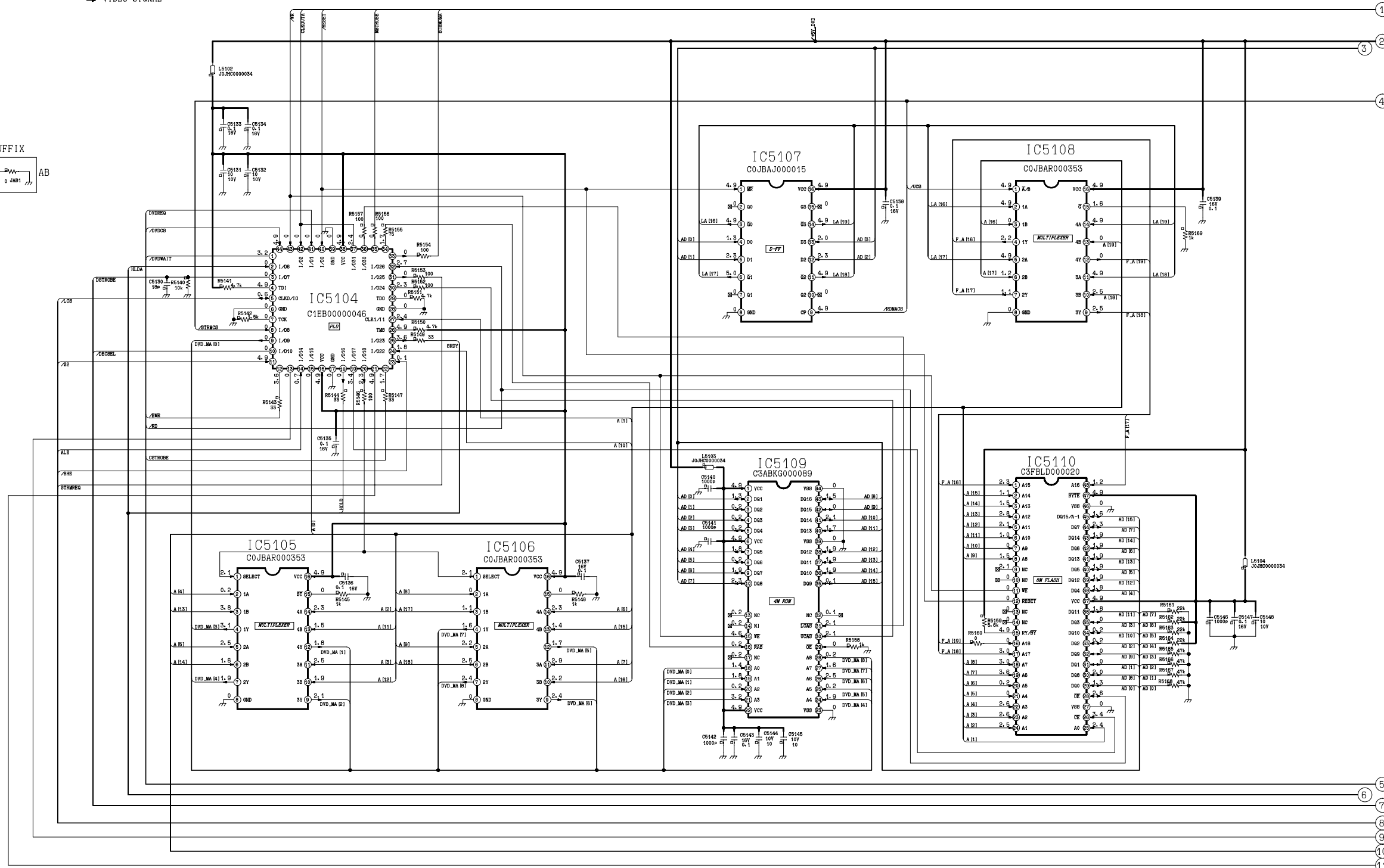
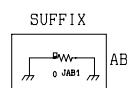
⚠ DG-BOARD TXNDG10GMK (5/7) ➡ AUDIO SIGNAL
➡ VIDEO SIGNAL



⚠ DG-BOARD TXNDG10GMK (6/7)

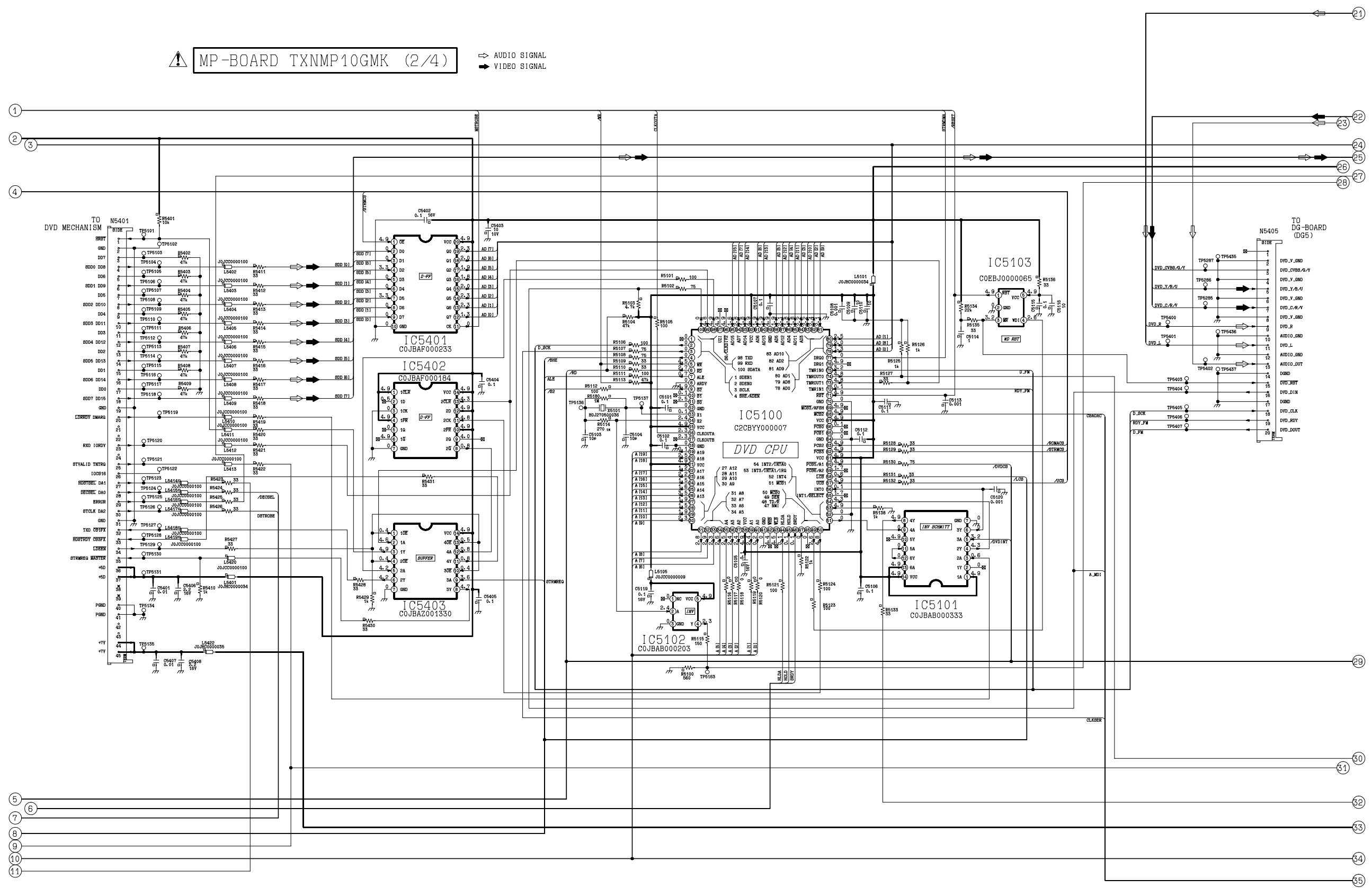
⇒ AUDIO SIGNAL
➡ VIDEO SIGNAL

⇒ AUDIO SIGNAL
 ➡ VIDEO SIGNAL



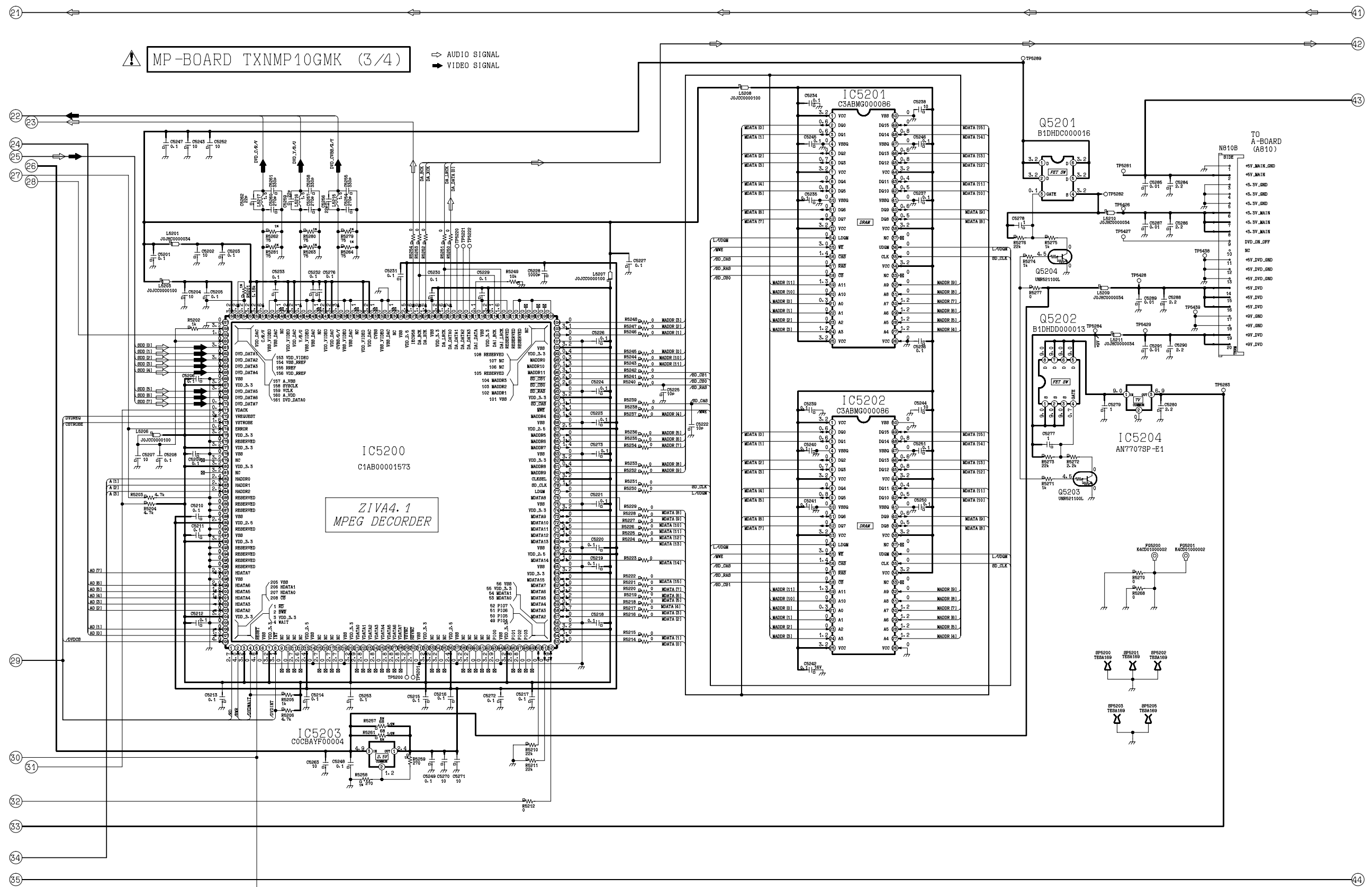
⚠ MP-BOARD TXNMP10GMK (2/4)

⇒ AUDIO SIGNAL
➡ VIDEO SIGNAL



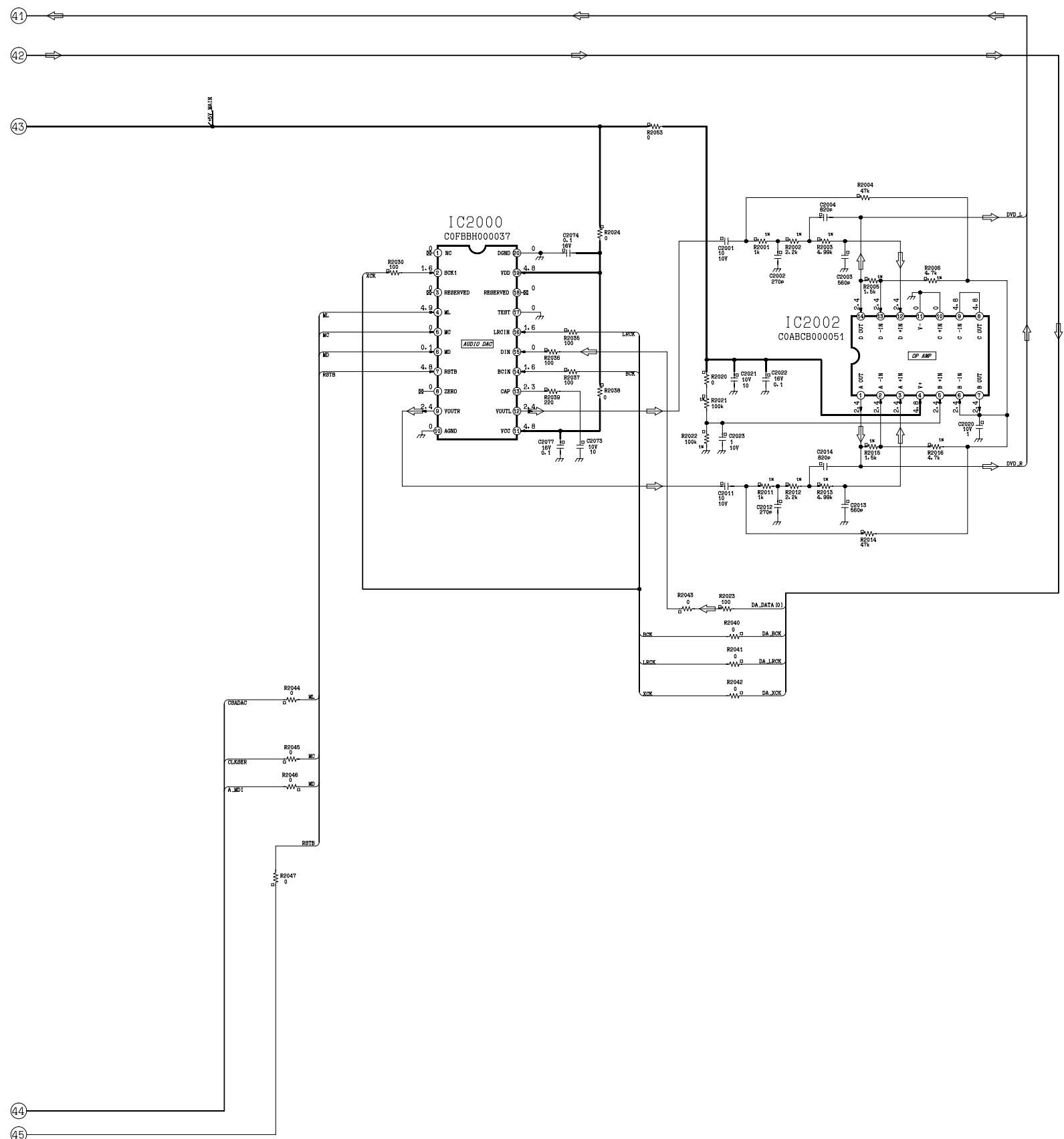
TX-15LV1
MP-Board (2 of 4) Schematic Diagram

TX-15LV1
MP-Board (2 of 4) Schematic Diagram



TX-15LV1
MP-Board (3 of 4) Schematic Diagram

TX-15LV1
MP-Board (3 of 4) Schematic Diagram





13 Block and Schematic Diagram

13.1. Schematic Diagram Notes

Important Safety Notice

Components identified by \triangle mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. Resistor

All resistors are carbon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

\bigcirc	: Nonflammable	\boxtimes	: Metal Oxide
\triangle	: Solid	\odot	: Metal Film
\boxplus	: Wire Wound	\otimes	: Fuse

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μ F, unless otherwise noted.

\otimes	: Temperature Compensation	$\begin{array}{c} + \\ \text{---} \text{H} \text{---} \end{array}$: Electrolytic
\textcircled{M}	: Polyester	$\begin{array}{c} \text{NP} \\ \text{---} \text{H} \text{---} \end{array}$: Bipolar
\textcircled{m}	: Metalized Polyester	\textcircled{T}	: Dipped Tantalum
\boxtimes	: Polypropylene	\textcircled{Z}	: Z-Type

3. Coil

Unit of inductance is μ H, unless otherwise noted.

4. Test Point

\bigcirc : Test Point position

5. Earth Symbol

$\text{---} \text{H} \text{---}$: Chassis Earth (Cold) ∇ : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source AC 100 – 240 V, 50/60 Hz
Receiving Signal Colour Bar signal (RF)
All customer's controls Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video \Rightarrow Audio \Rightarrow

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

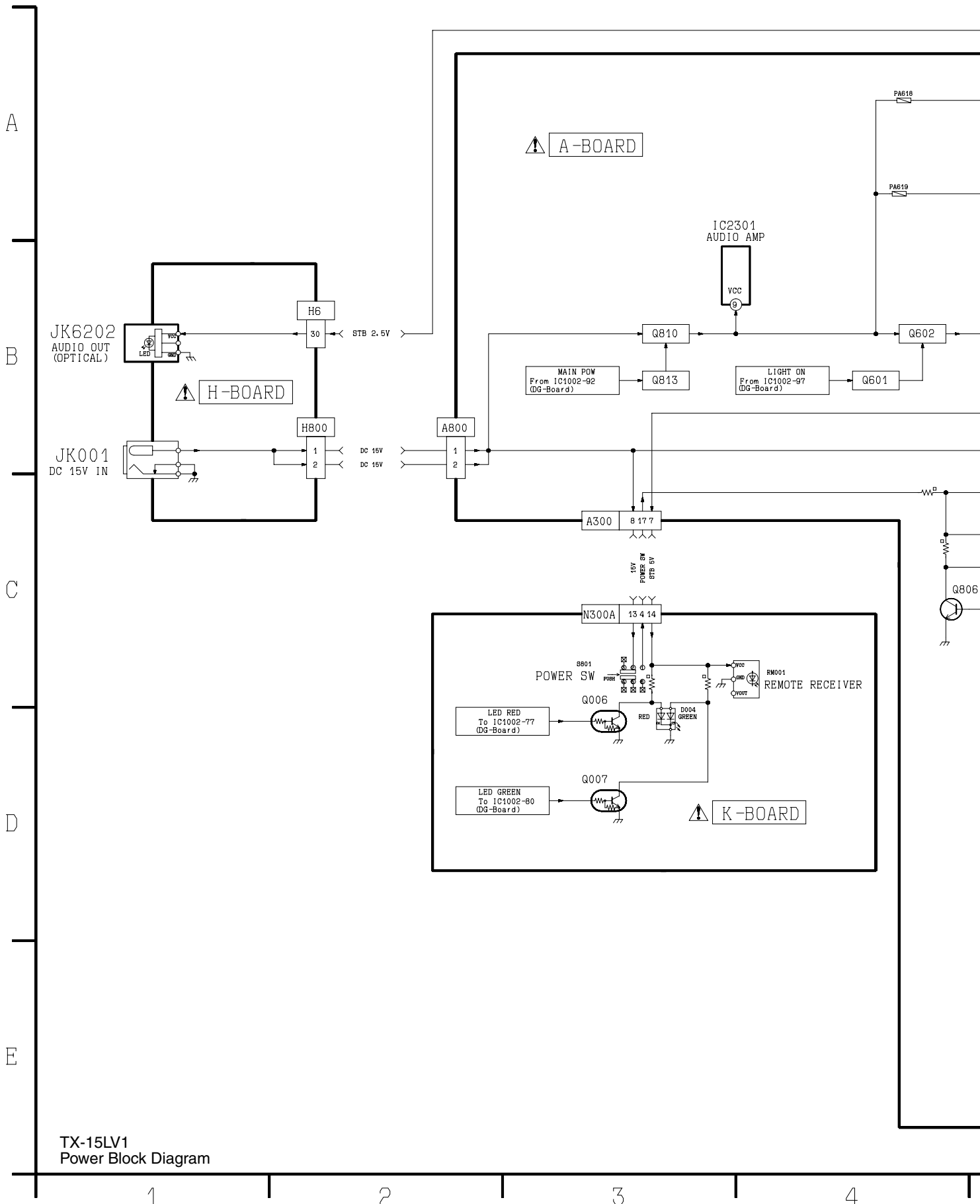
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

All circuits, except the Power Circuit, are cold.

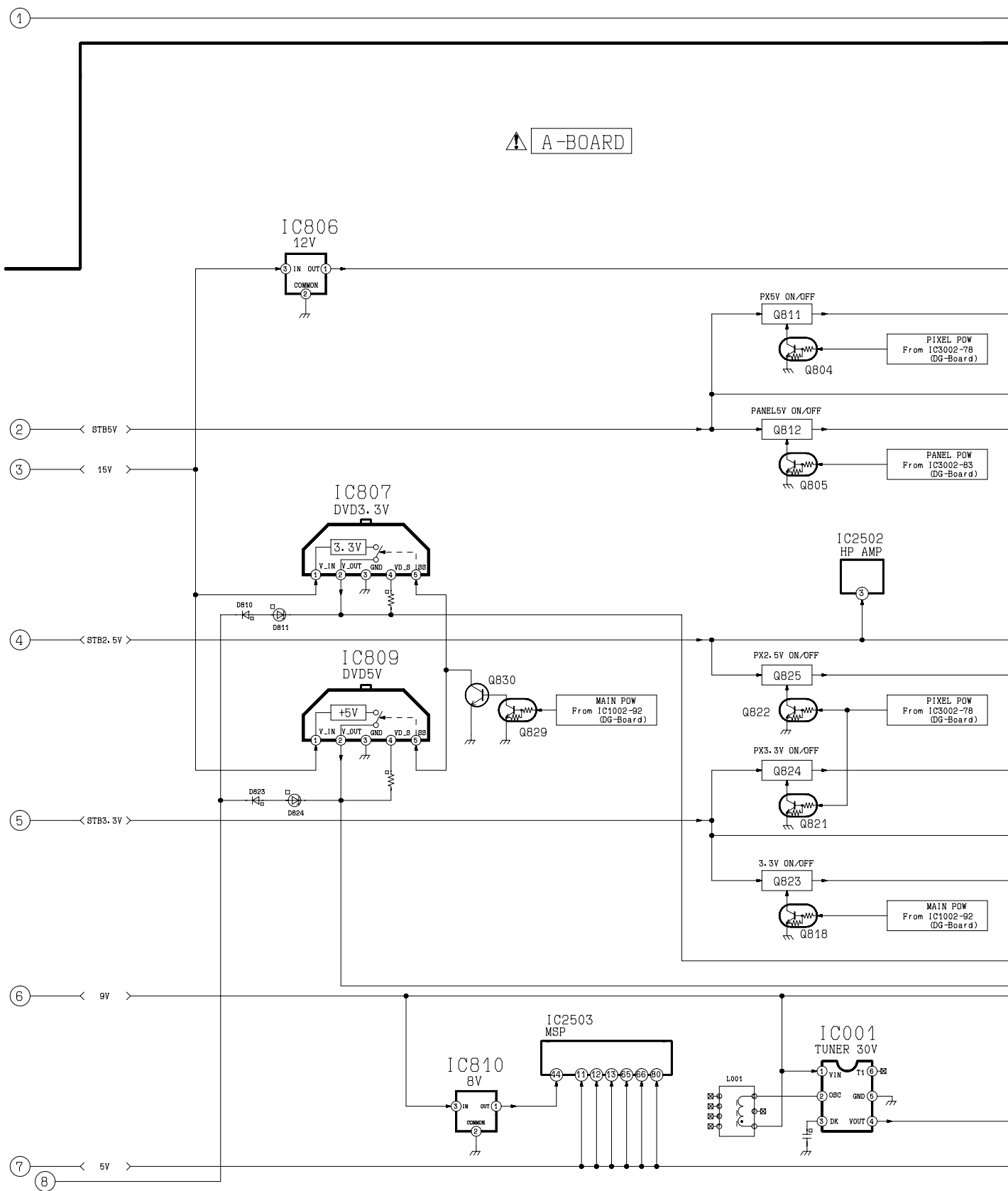
Precautions

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)

13.2. Power Block Diagram



TX-15LV1
Power Block Diagram



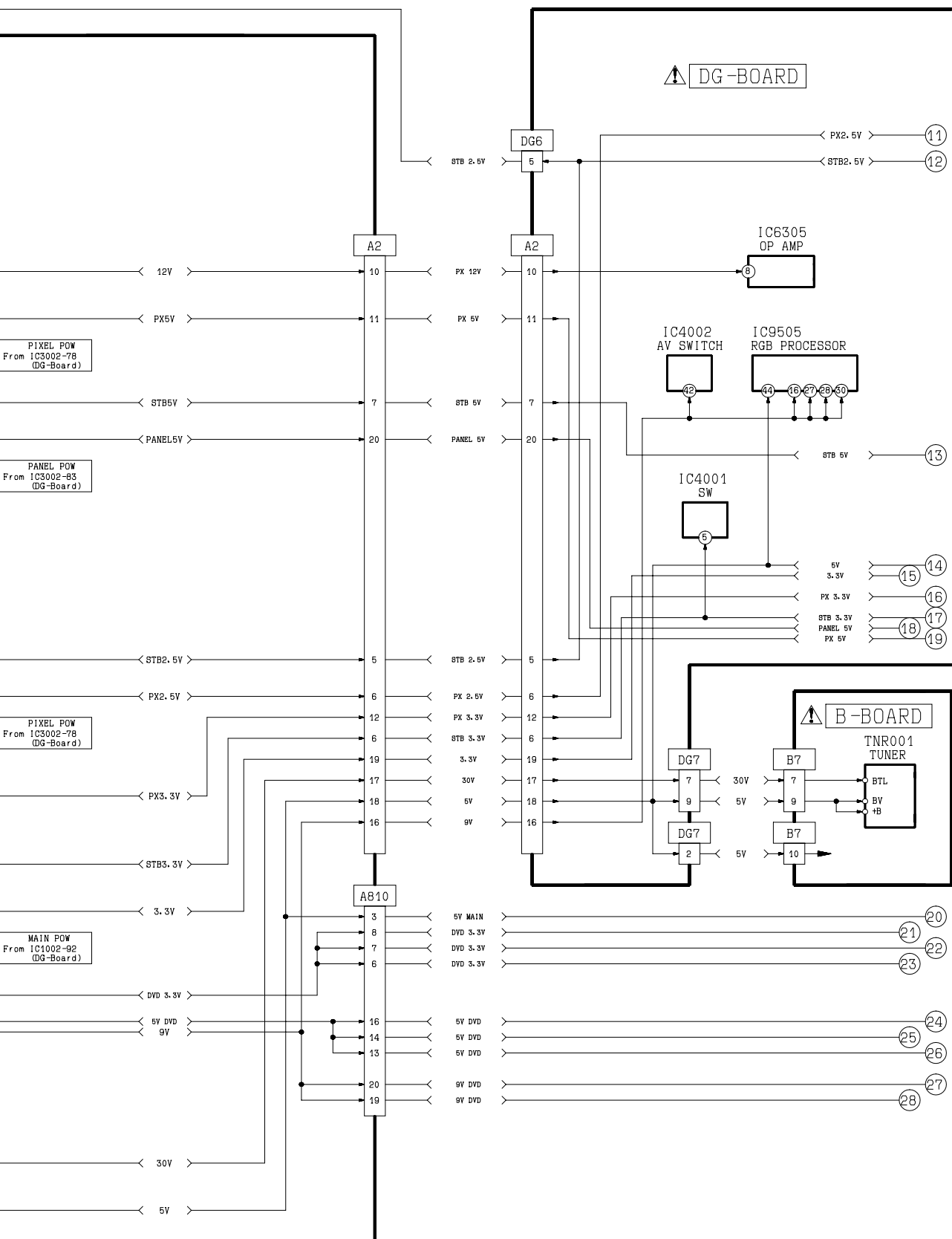
TX-15LV1
Power Block Diagram

8

9

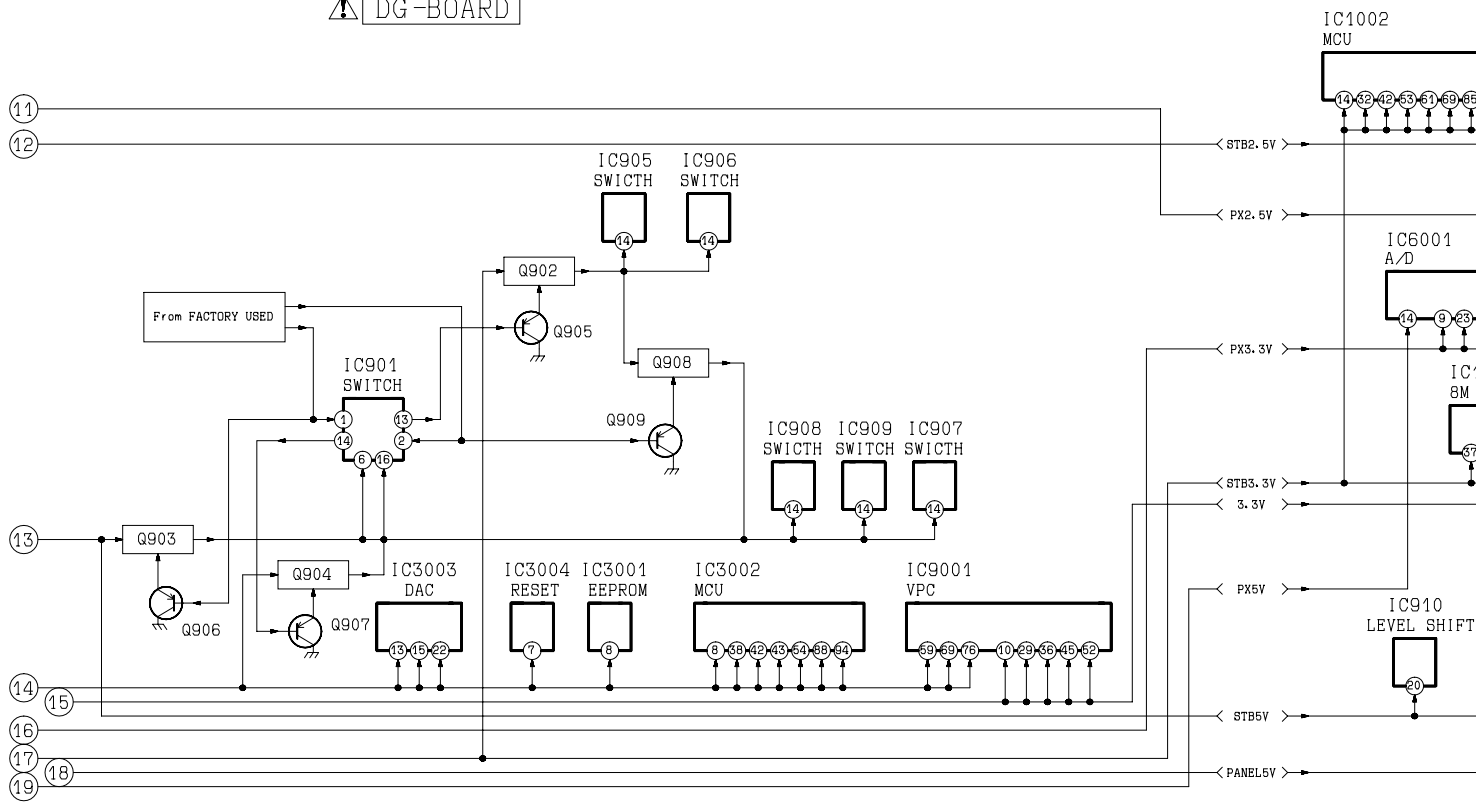
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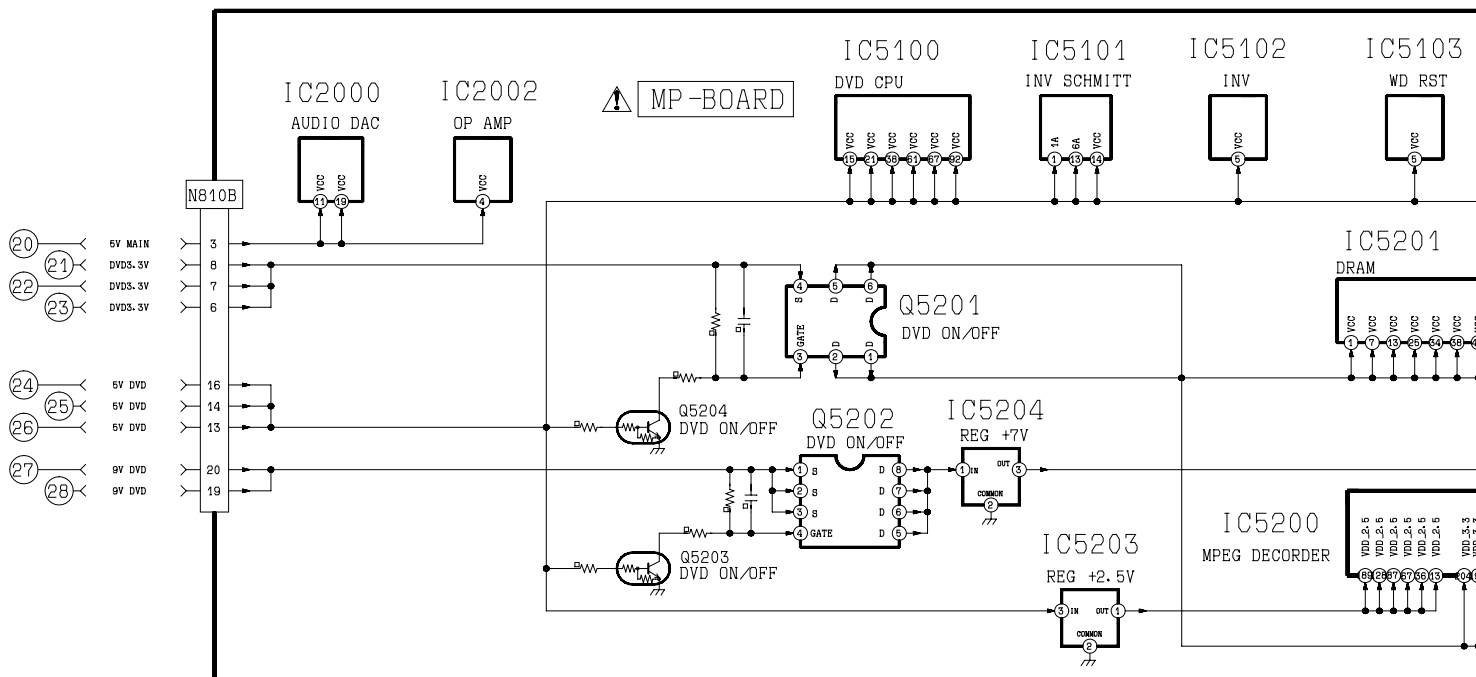


TX-15LV1
Power Block Diagram

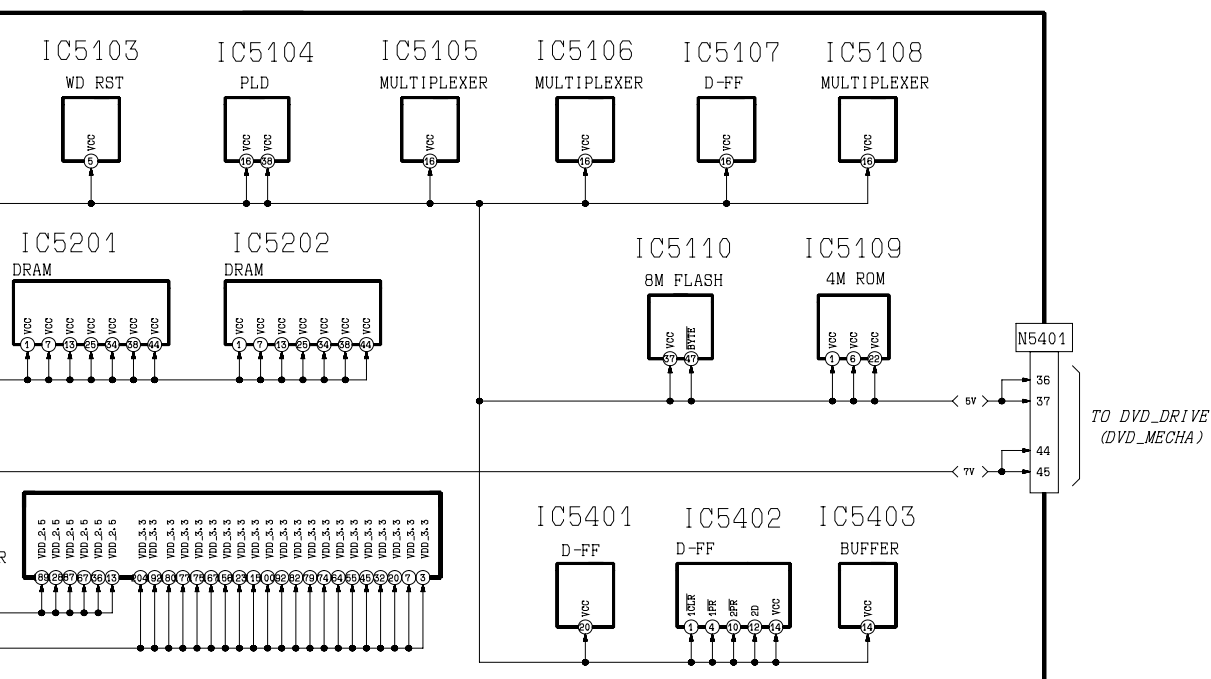
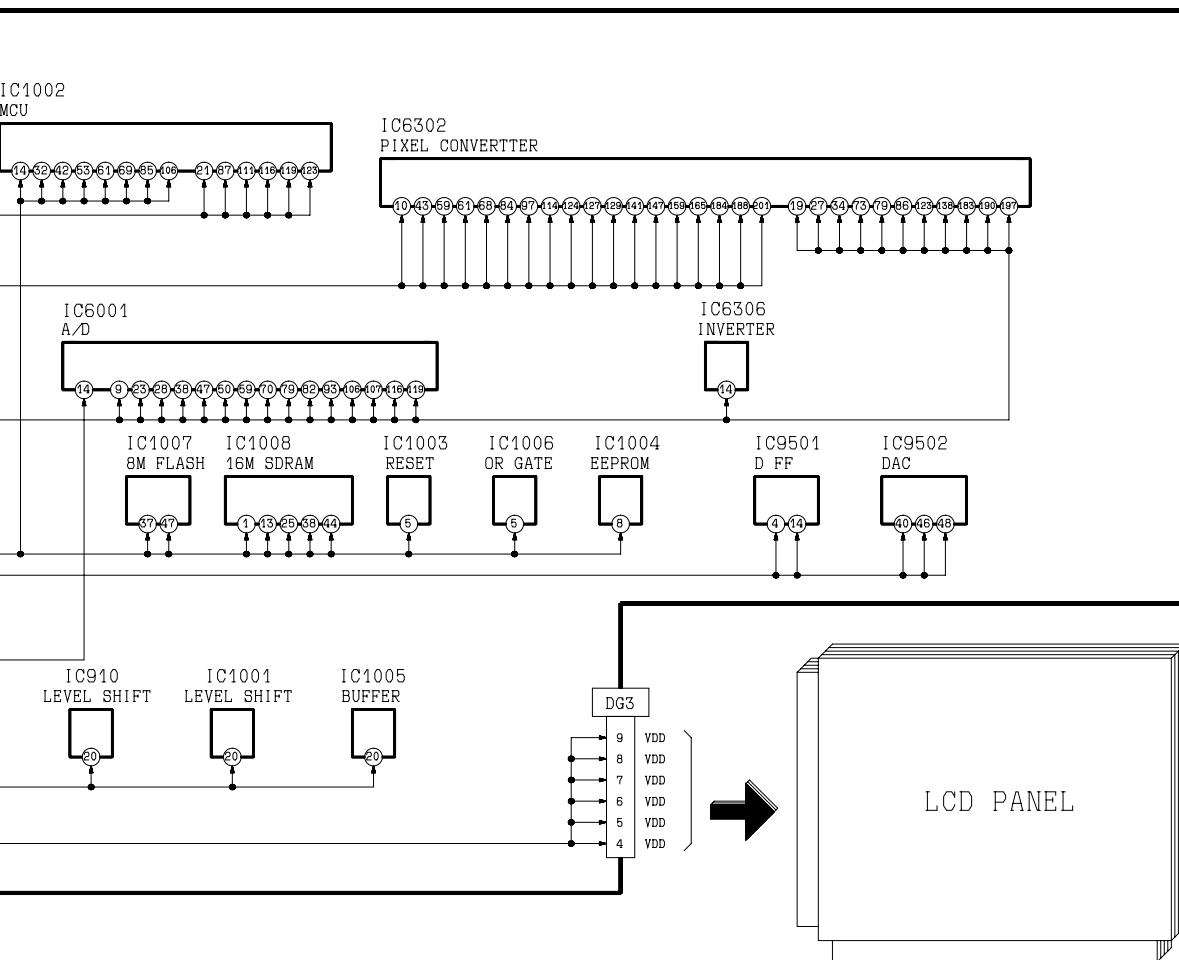
⚠ DG-BOARD



⚠ MP-BOARD



TX-15LV1
Power Block Diagram



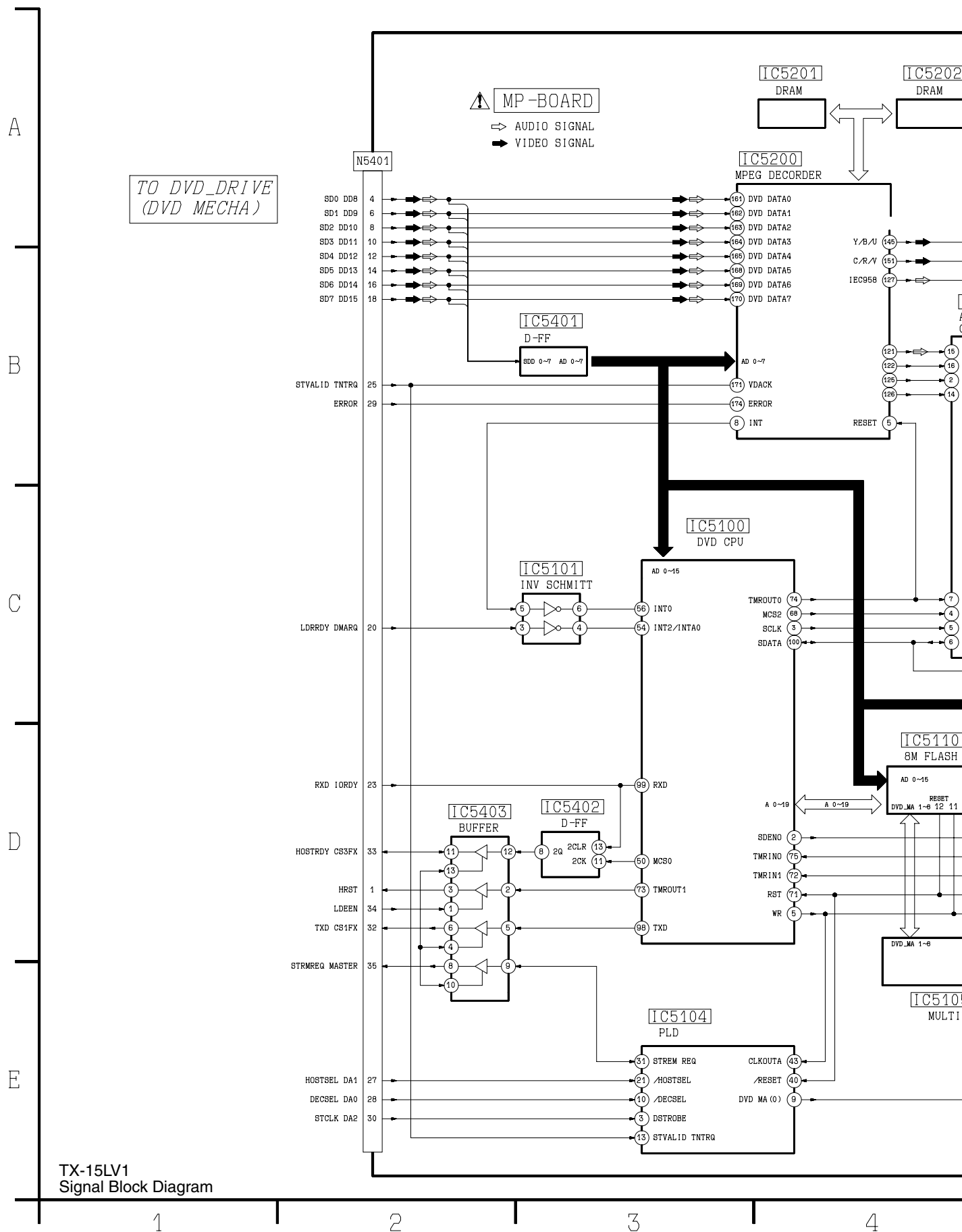
TX-15LV1
Power Block Diagram

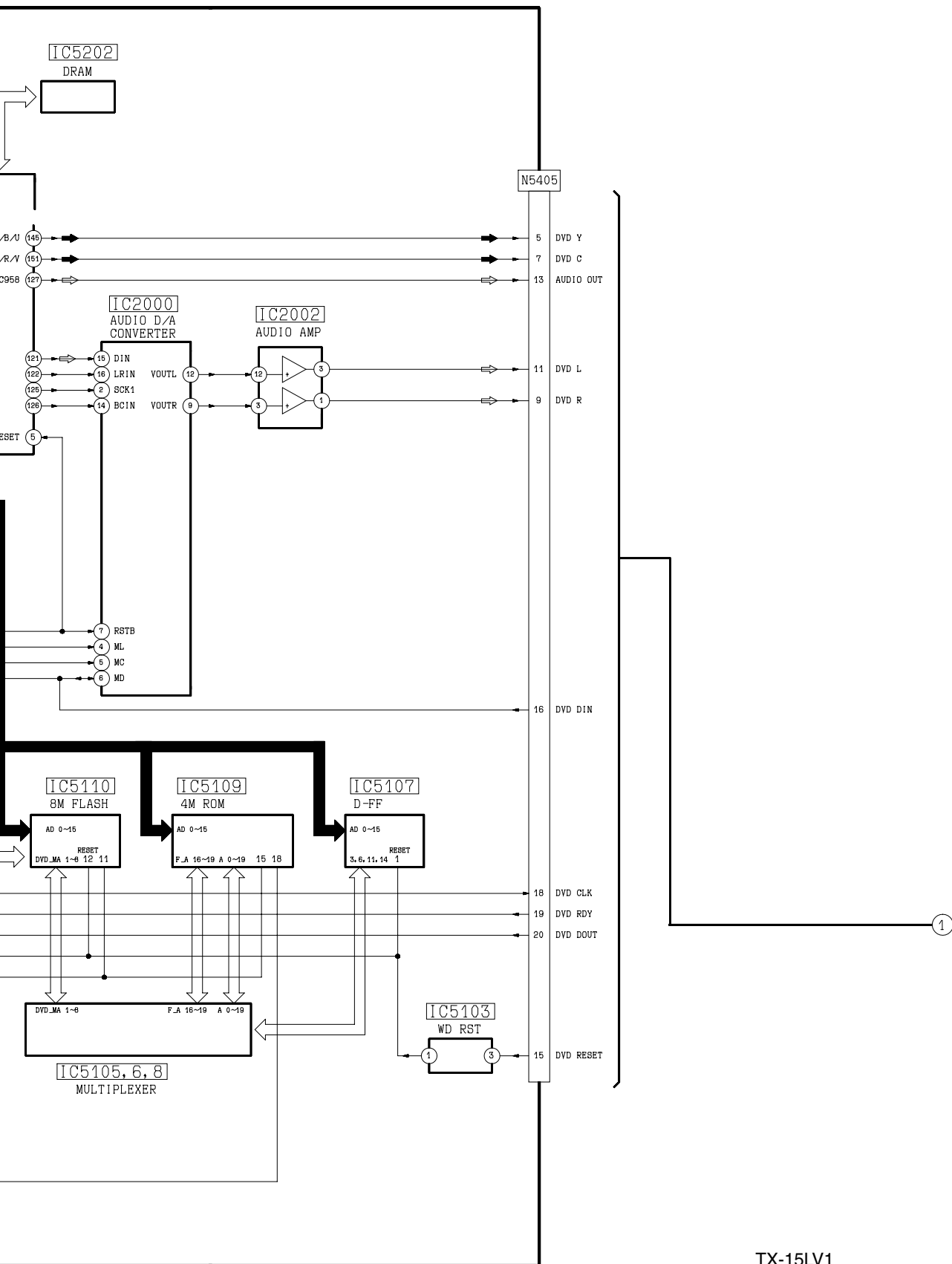
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13.3. Signal Block Diagram

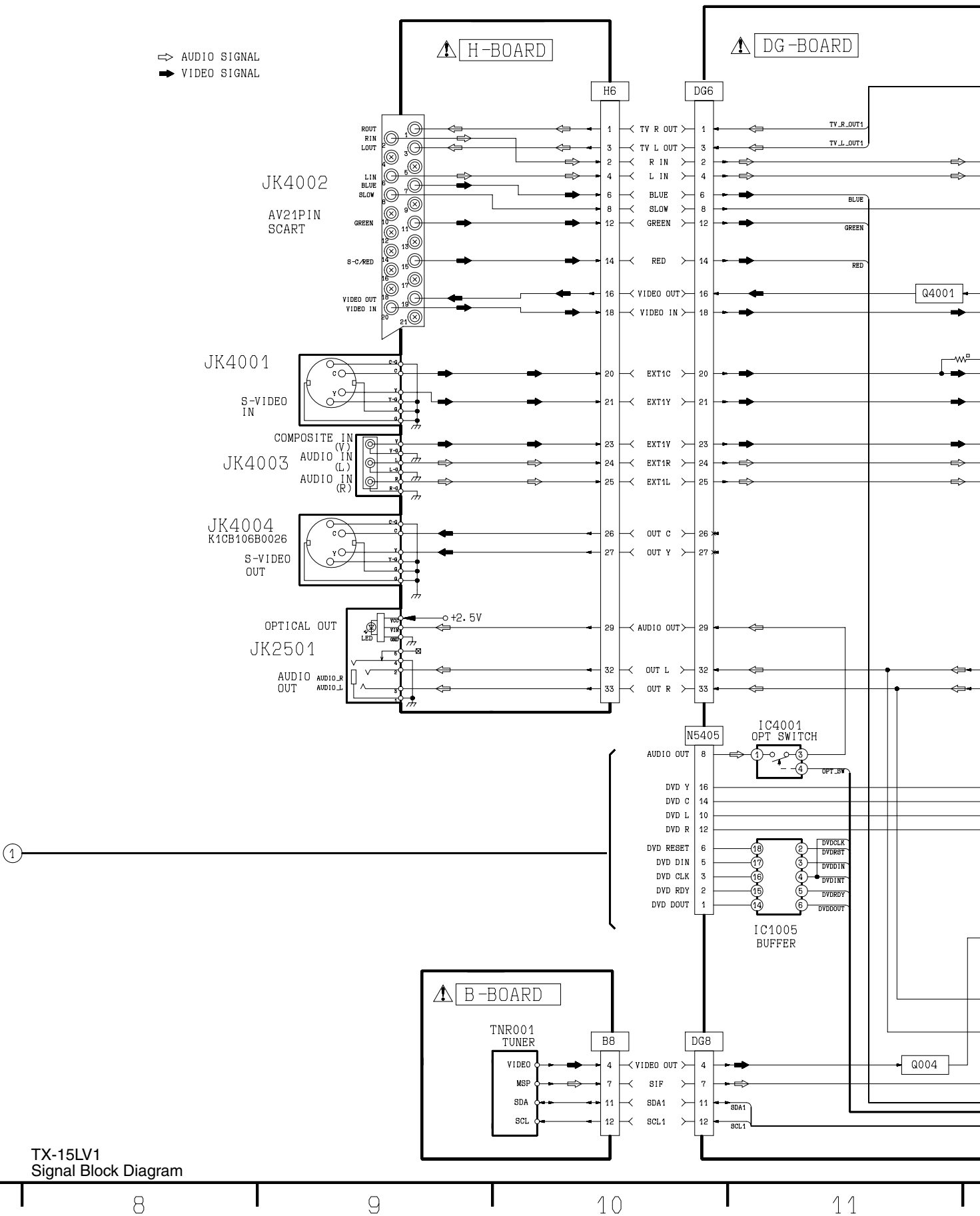


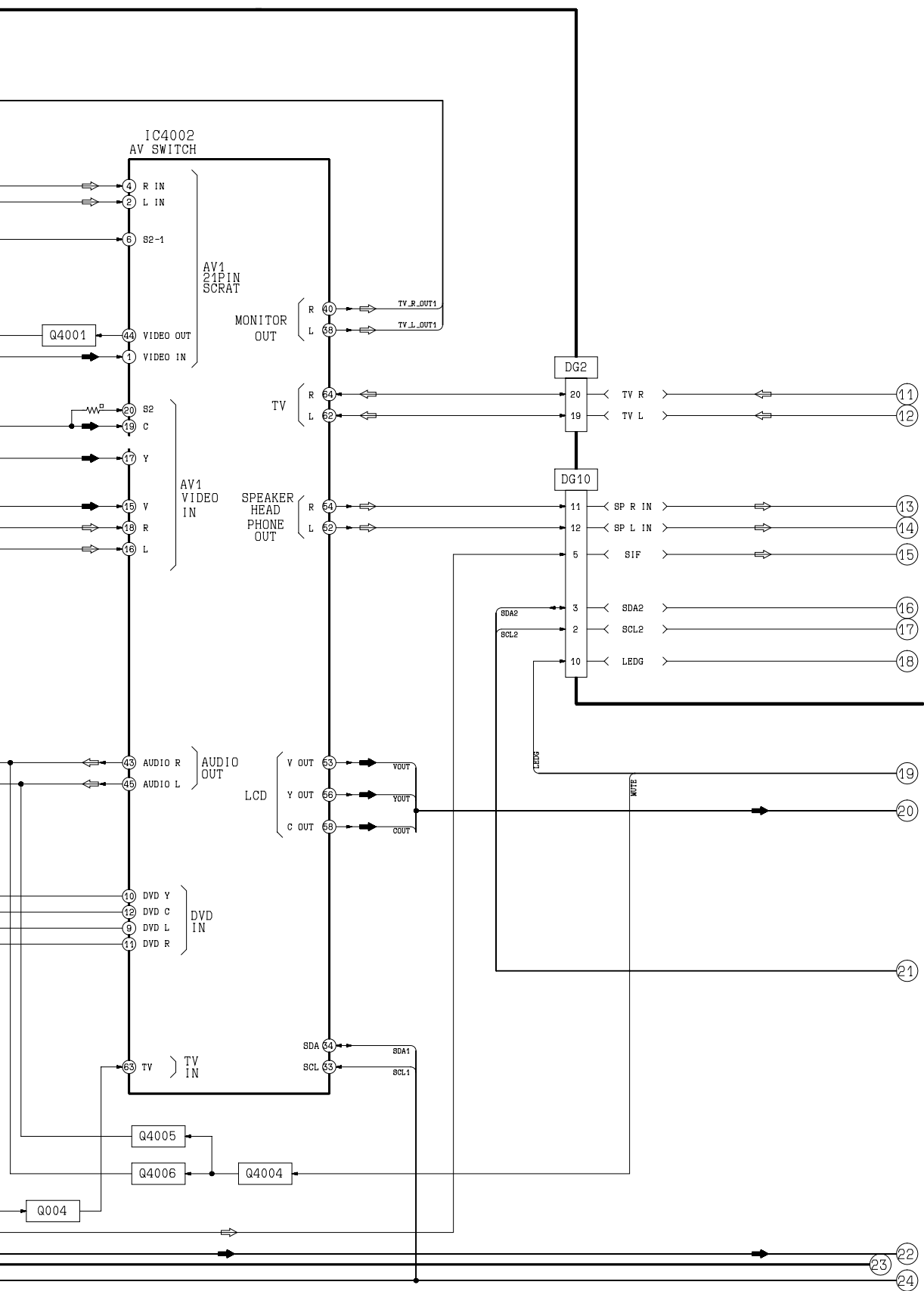


TX-15LV1
Signal Block Diagram



⇒ AUDIO SIGNAL
➡ VIDEO SIGNAL



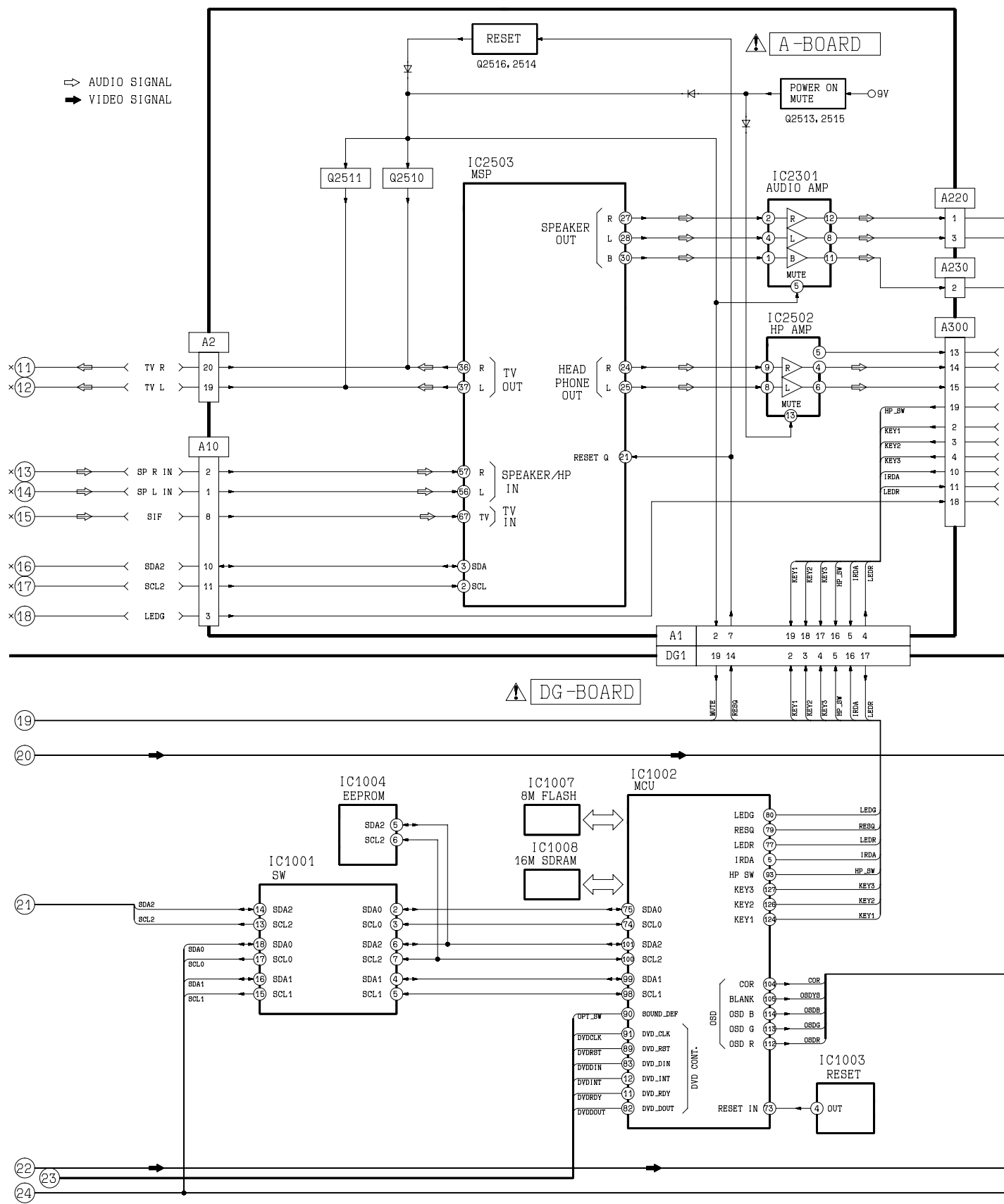


TX-15LV1 Signal Block Diagram

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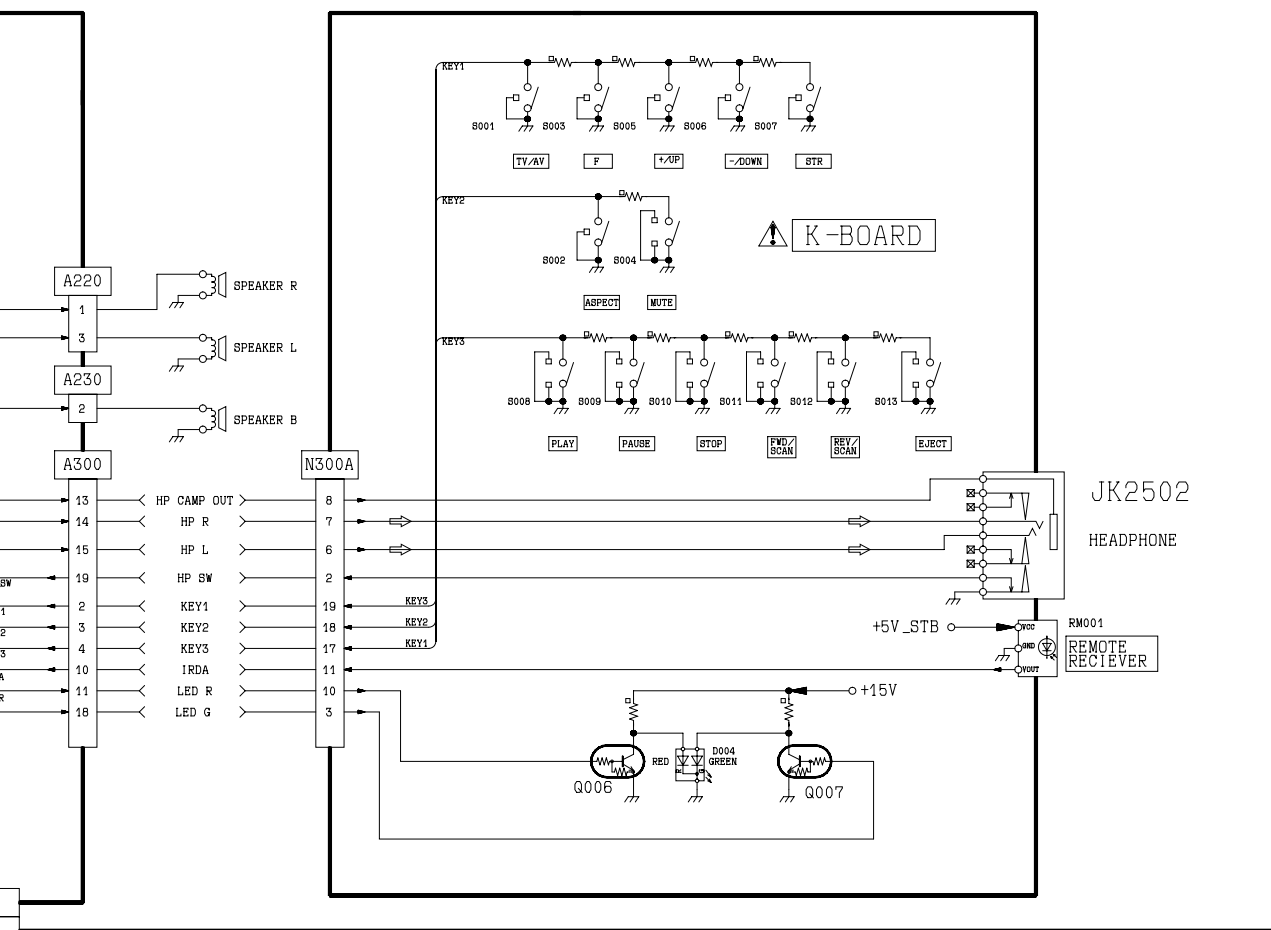
TX-15LV1 Signal Block Diagram

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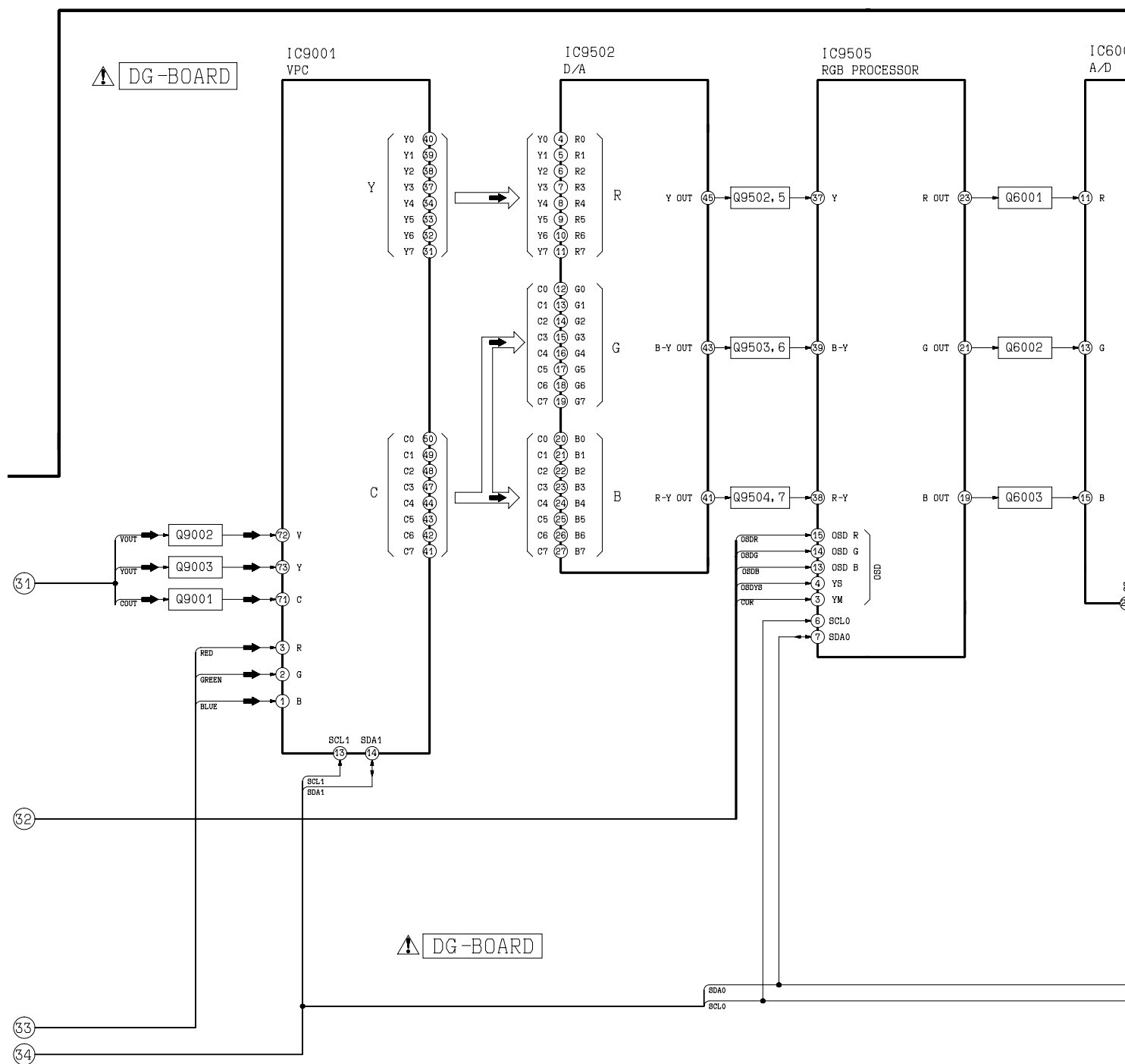
TX-15LV1 Signal Block Diagram

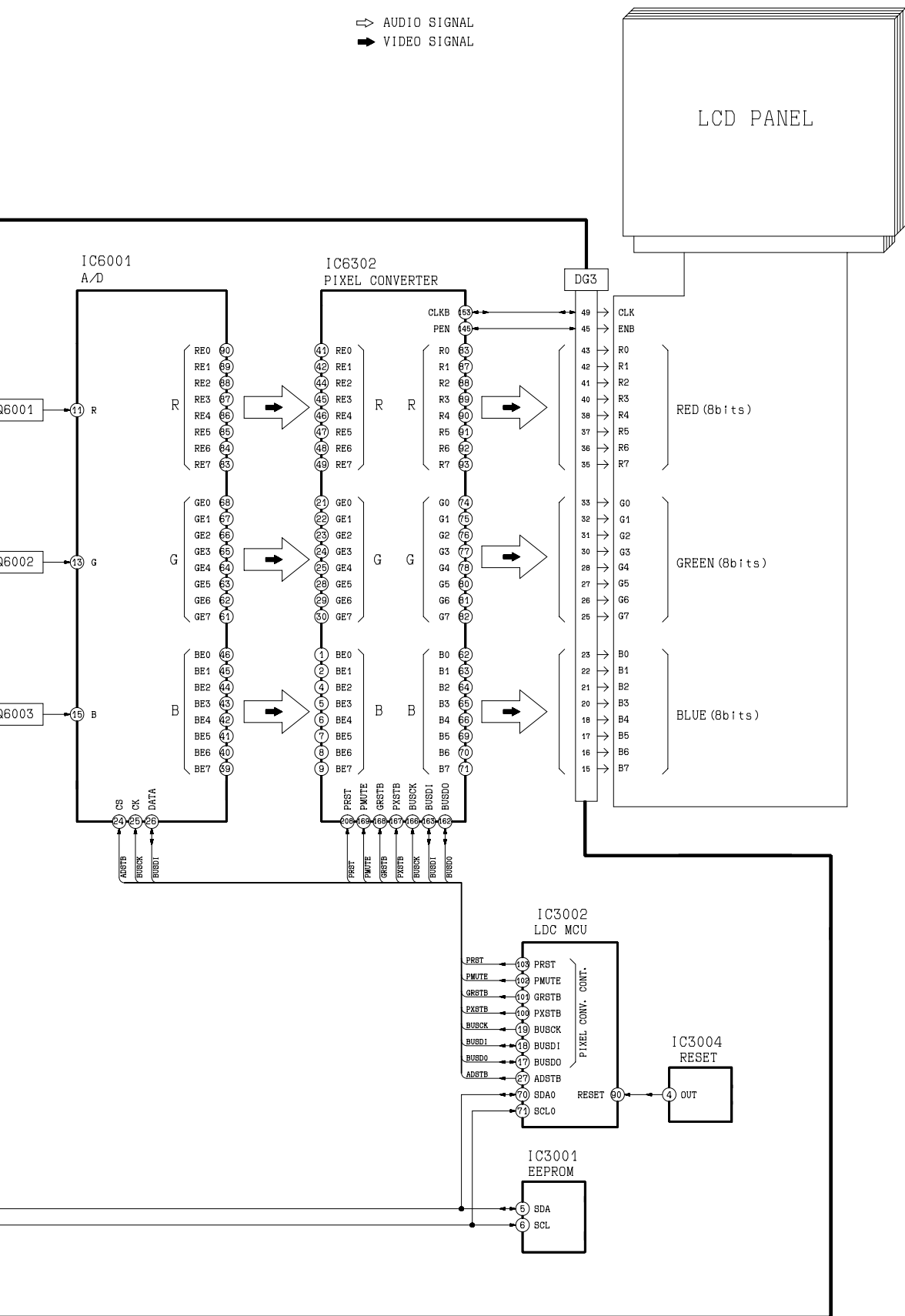
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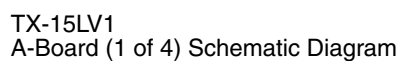
TX-15LV1 Signal Block Diagram

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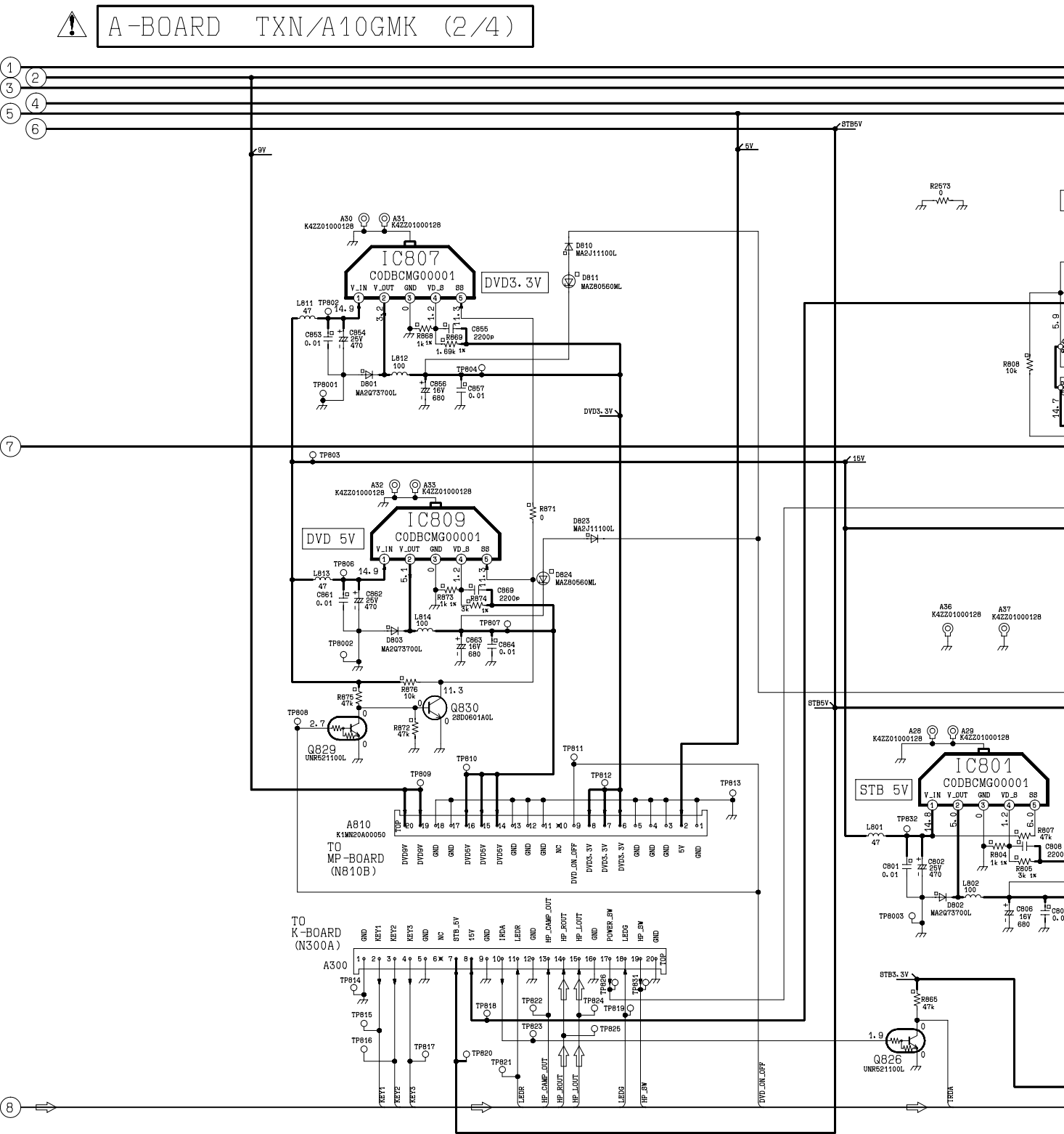
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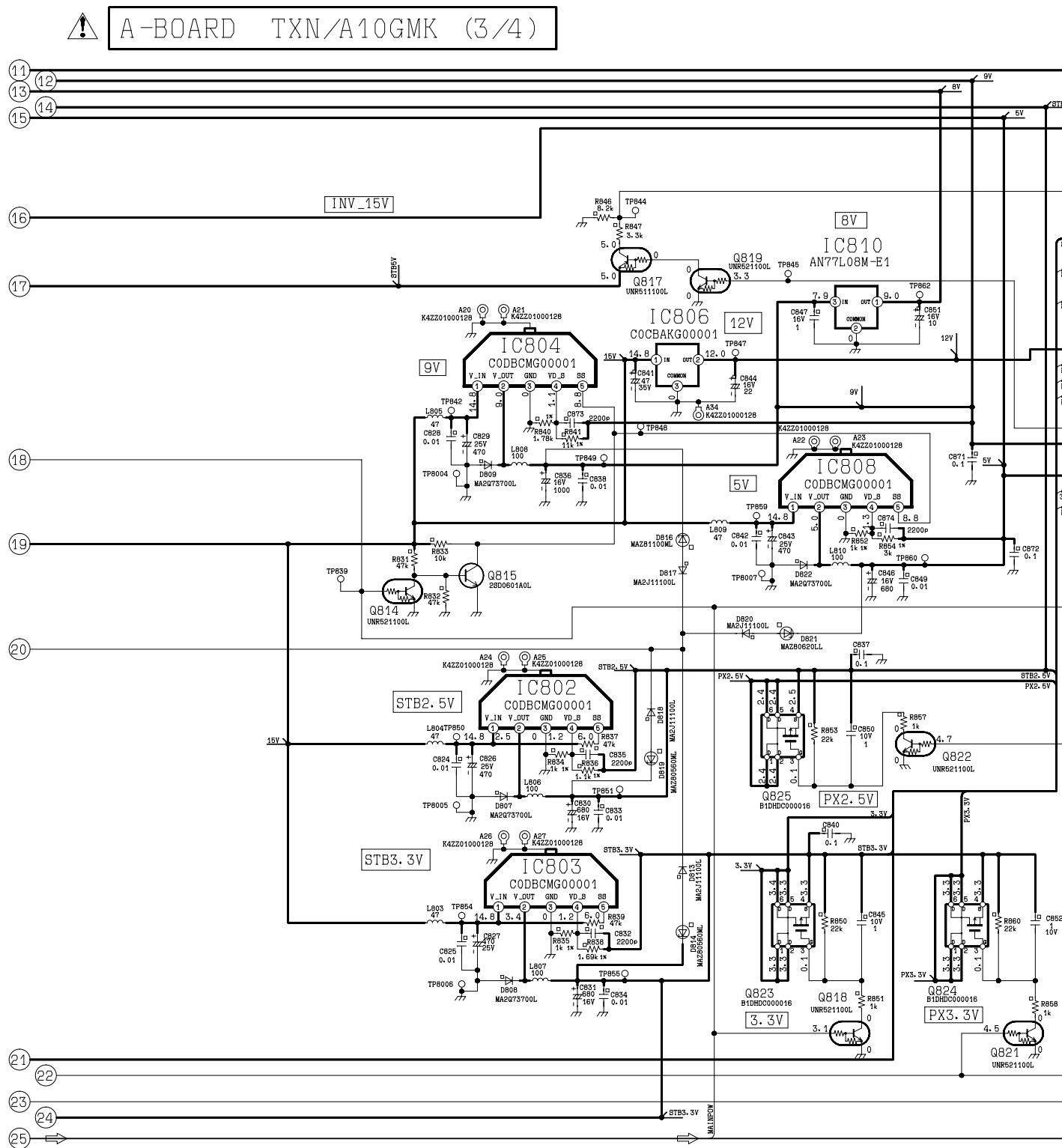


13.5. A-Board (2 of 4) Schematic Diagram



TX-15LV1
A-Board (2 of 4) Schematic Diagram

13.6. A-Board (3 of 4) Schematic Diagram



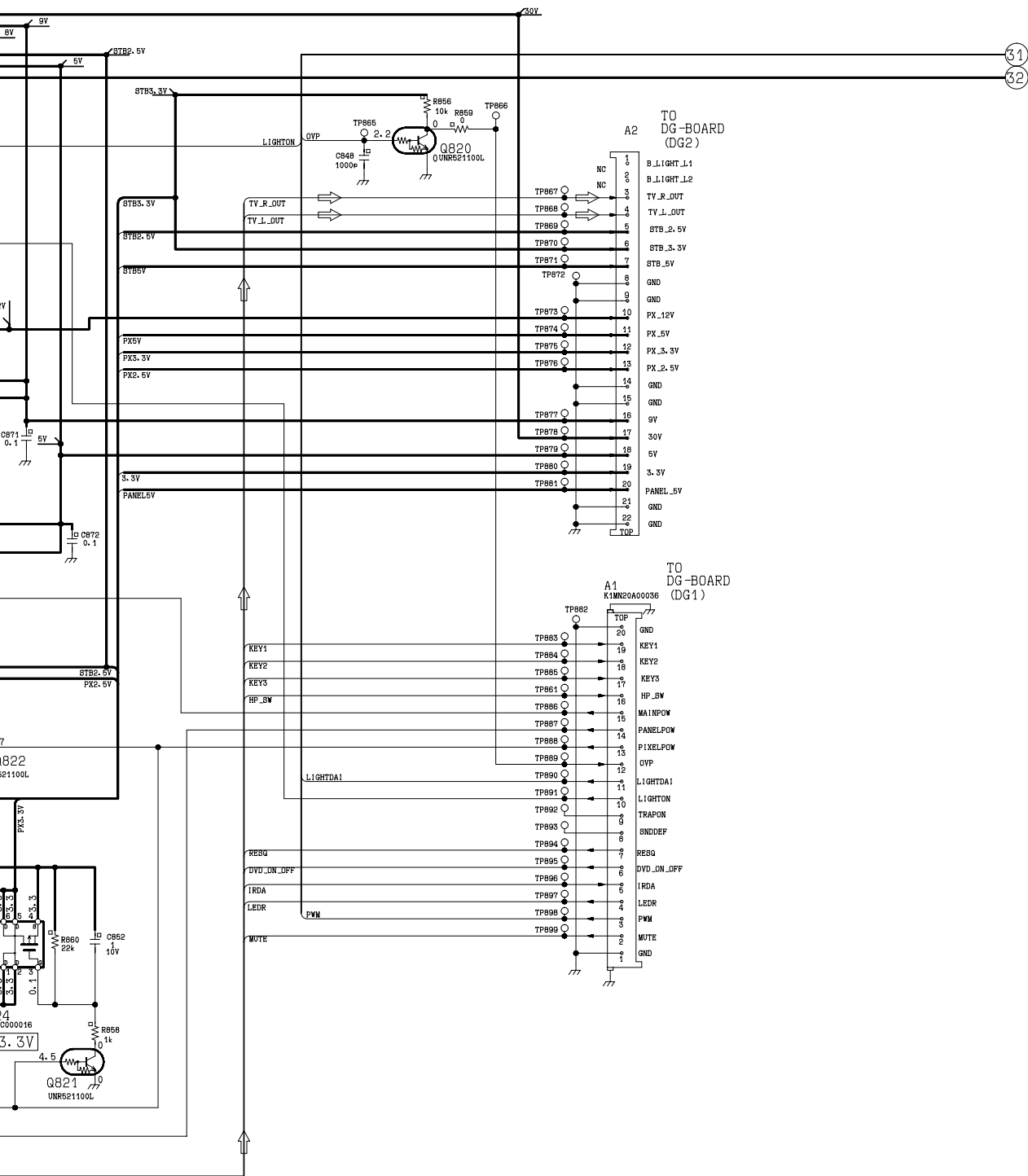
TX-15LV1
A-Board (3 of 4) Schematic Diagram

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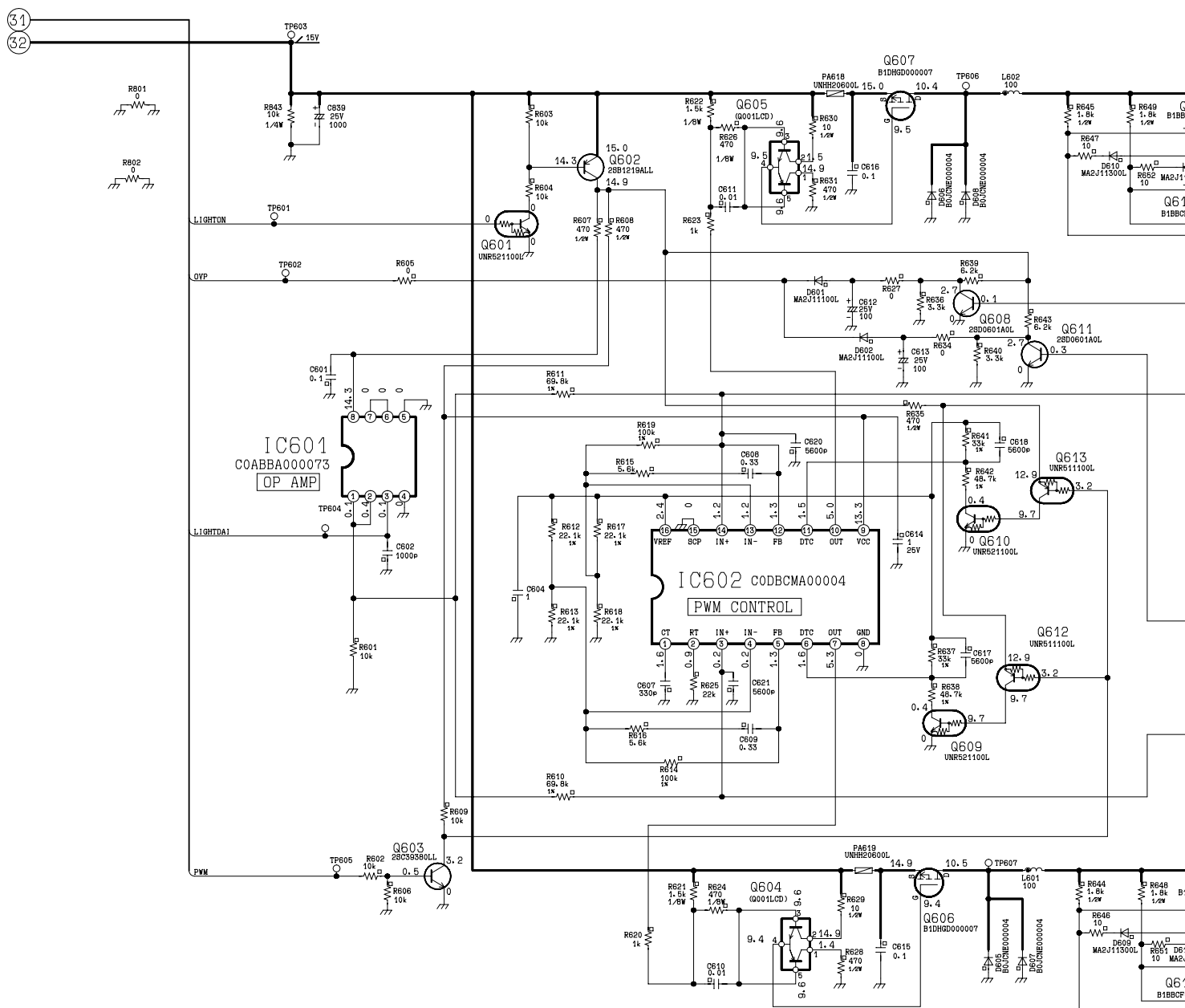
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TX-15LV1
A-Board (3 of 4) Schematic Diagram

13.7. A-Board (4 of 4) Schematic Diagram

⚠ A-BOARD TXN/A10GMK (4/4)



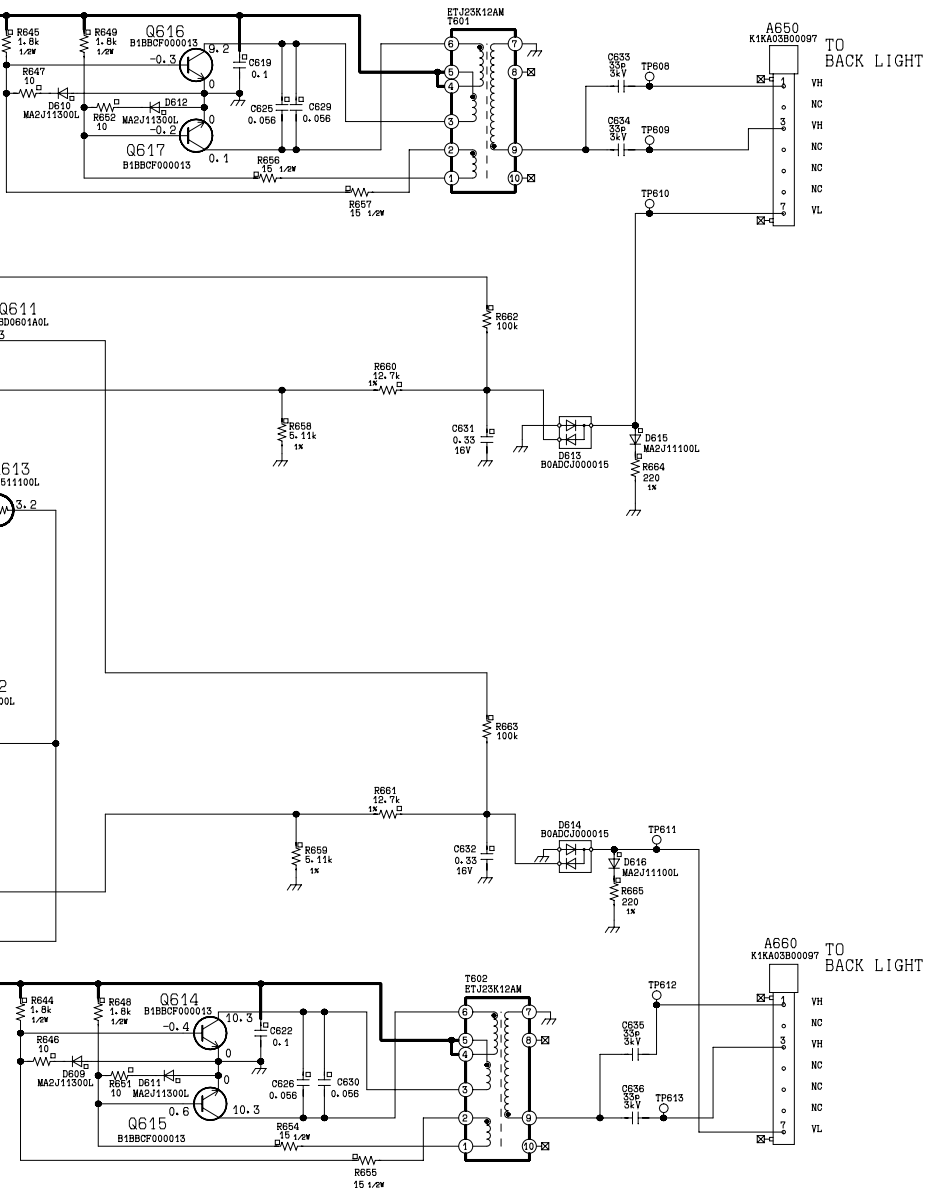
TX-15LV1
A-Board (4 of 4) Schematic Diagram

22

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TX-15LV1
A-Board (4 of 4) Schematic Diagram

26

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28

13.8. DG-Board (1 of 7) Schematic Diagram

A

⚠ DG-BOARD TXNDG10GMK (1/7)

⇒ AUDIO SIGNAL
➡ VIDEO SIGNAL

B

C

D

E

F

TO
H-BOARD
(H6)

DG6
K1M036A00008

TP1002

TP1003

TP1004

TP1000

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

TP1017

TP1018

TP1019

TP1020

TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

TP1007

TP1008

TP1009

TP1010

TP1011

TP1012

TP1013

TP1014

TP1015

TP1016

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TP1010

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TP1013

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TP1021

TP1022

TP1023

TP1024

TP1025

TP1001

TP1005

TP1006

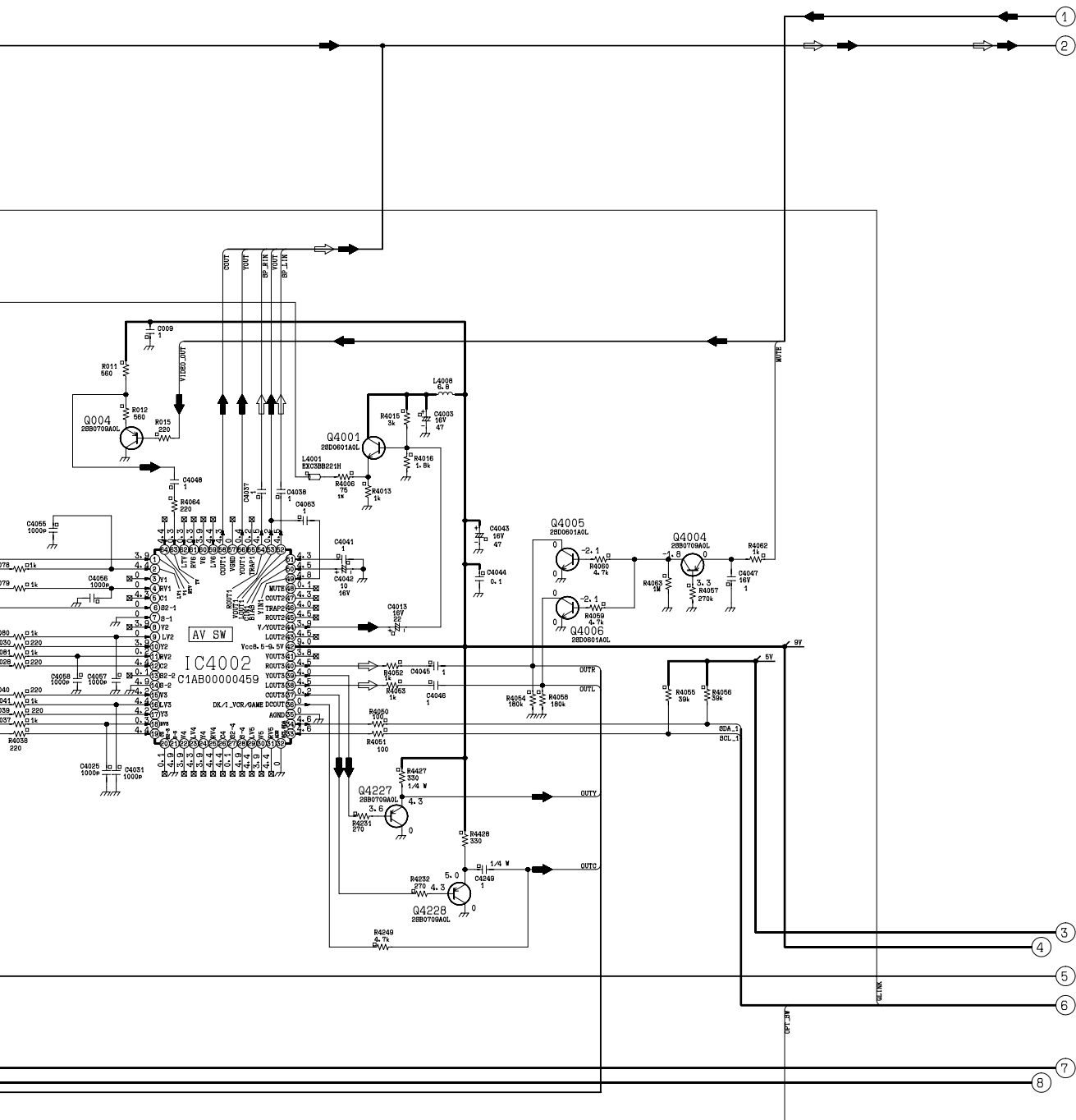
TP1007

TP1008

TP1009

TP1010

TP1011



TX-15LV1
DG-Board (1 of 7) Schematic Diagram

5

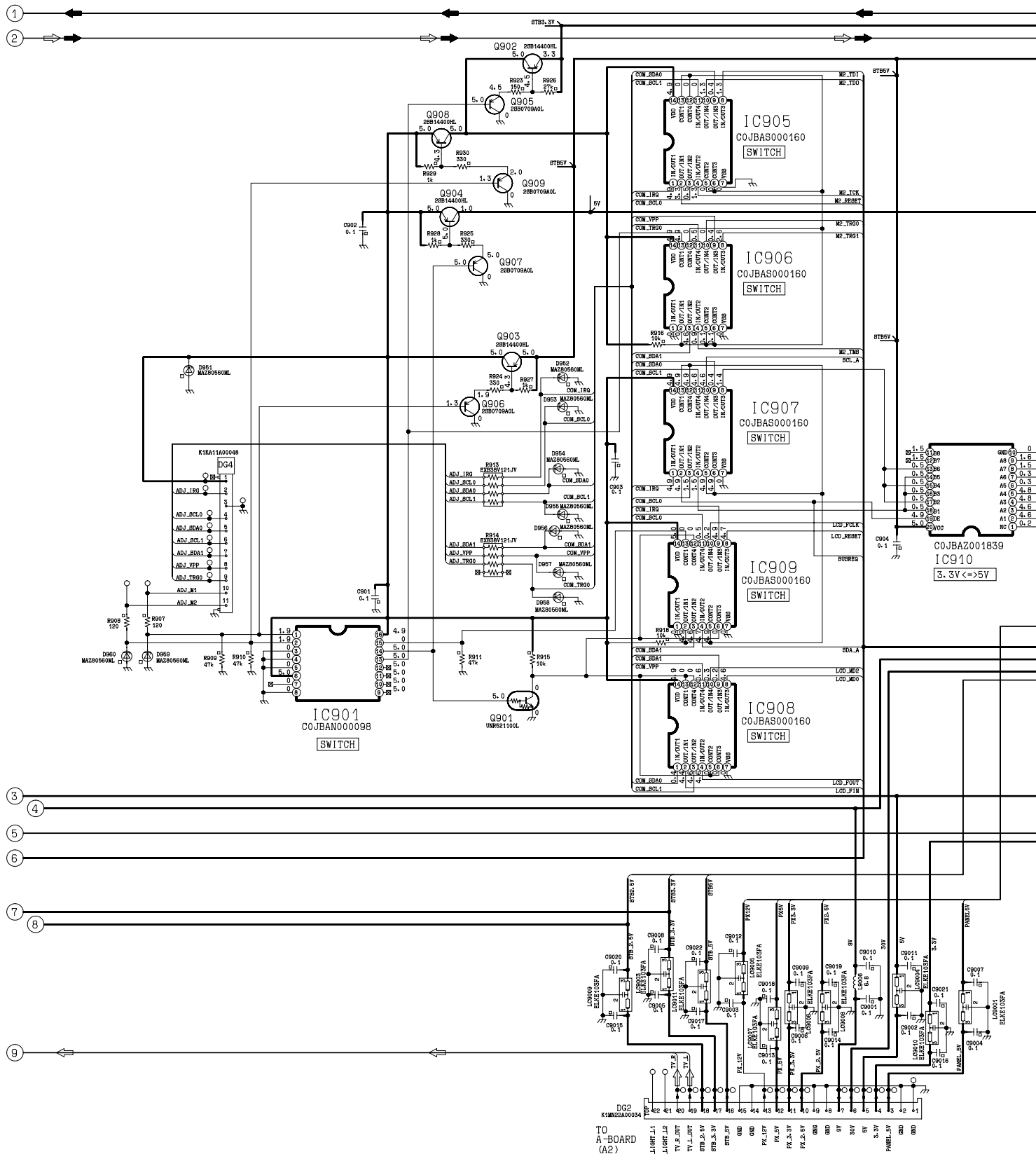
6

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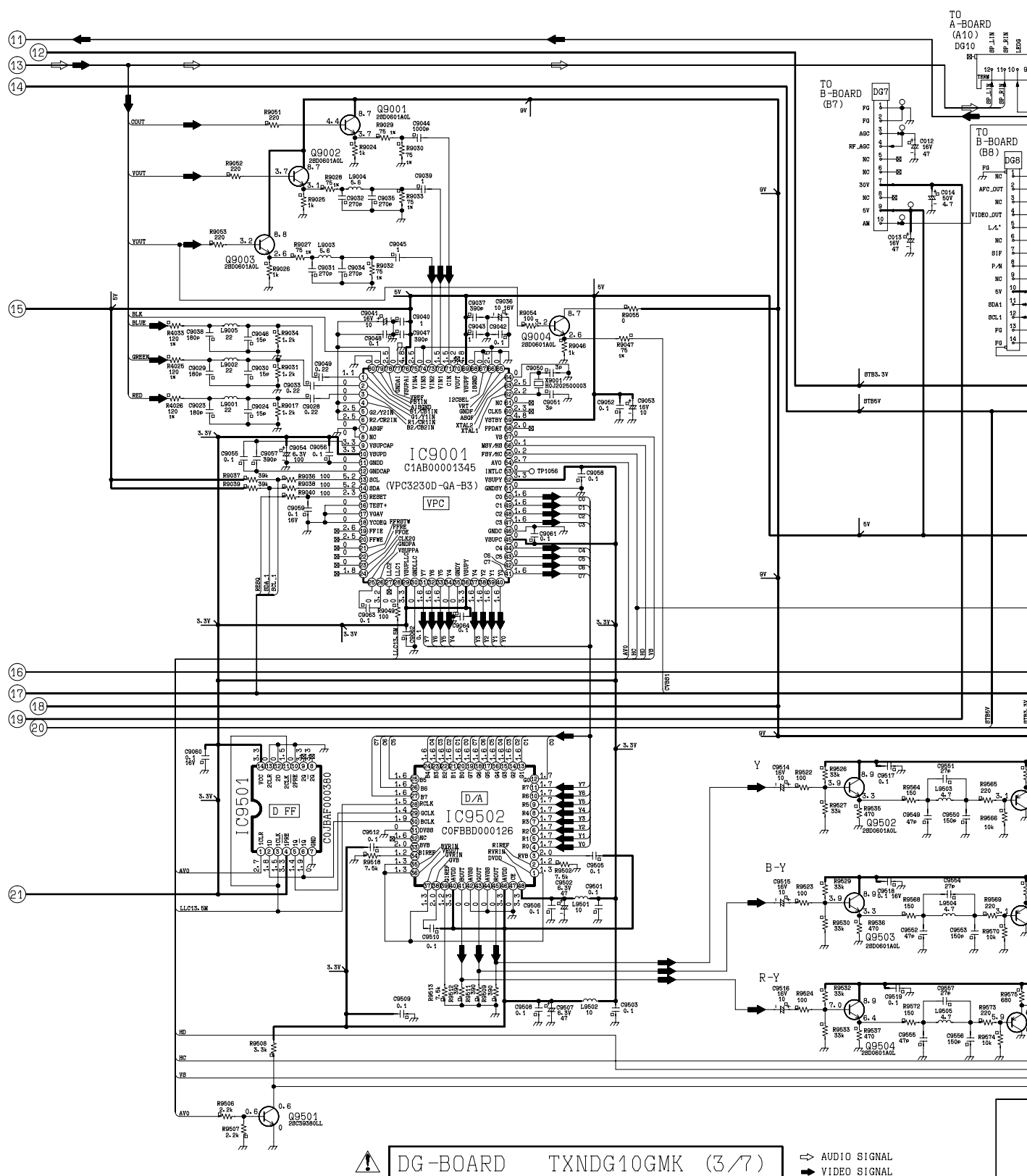
9

13.9. DG-Board (2 of 7) Schematic Diagram



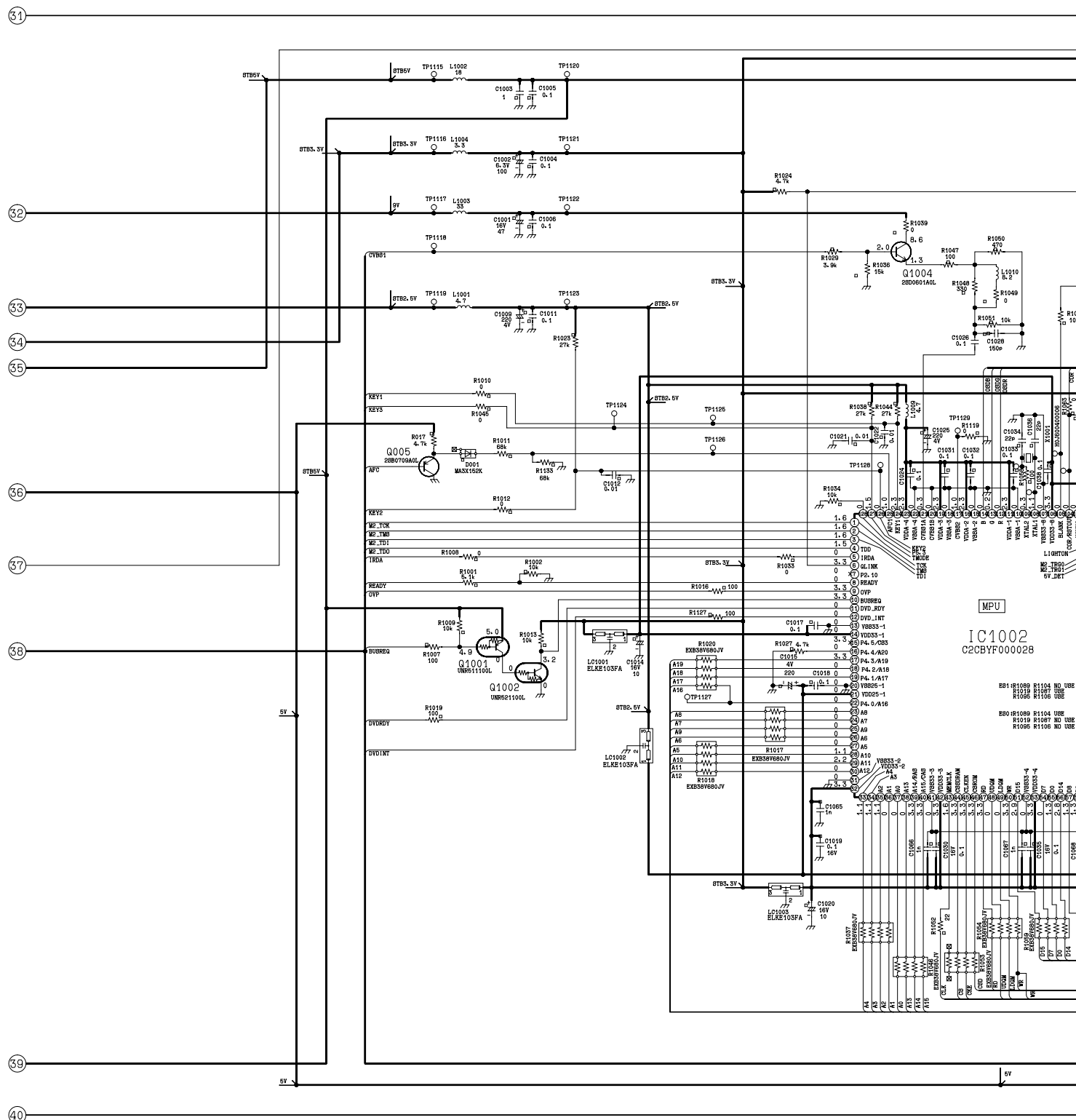
TX-15LV1
DG-Board (2 of 7) Schematic Diagram

13.10. DG-Board (3 of 7) Schematic Diagram



TX-15LV1
DG-Board (3 of 7) Schematic Diagram

13.11. DG-Board (4 of 7) Schematic Diagram



⚠ DG-BOARD TXNDG10GMK (4/7)

TX-15LV1
DG-Board (4 of 7) Schematic Diagram

⇒ AUDIO SIGNAL
⇒ VIDEO SIGNAL

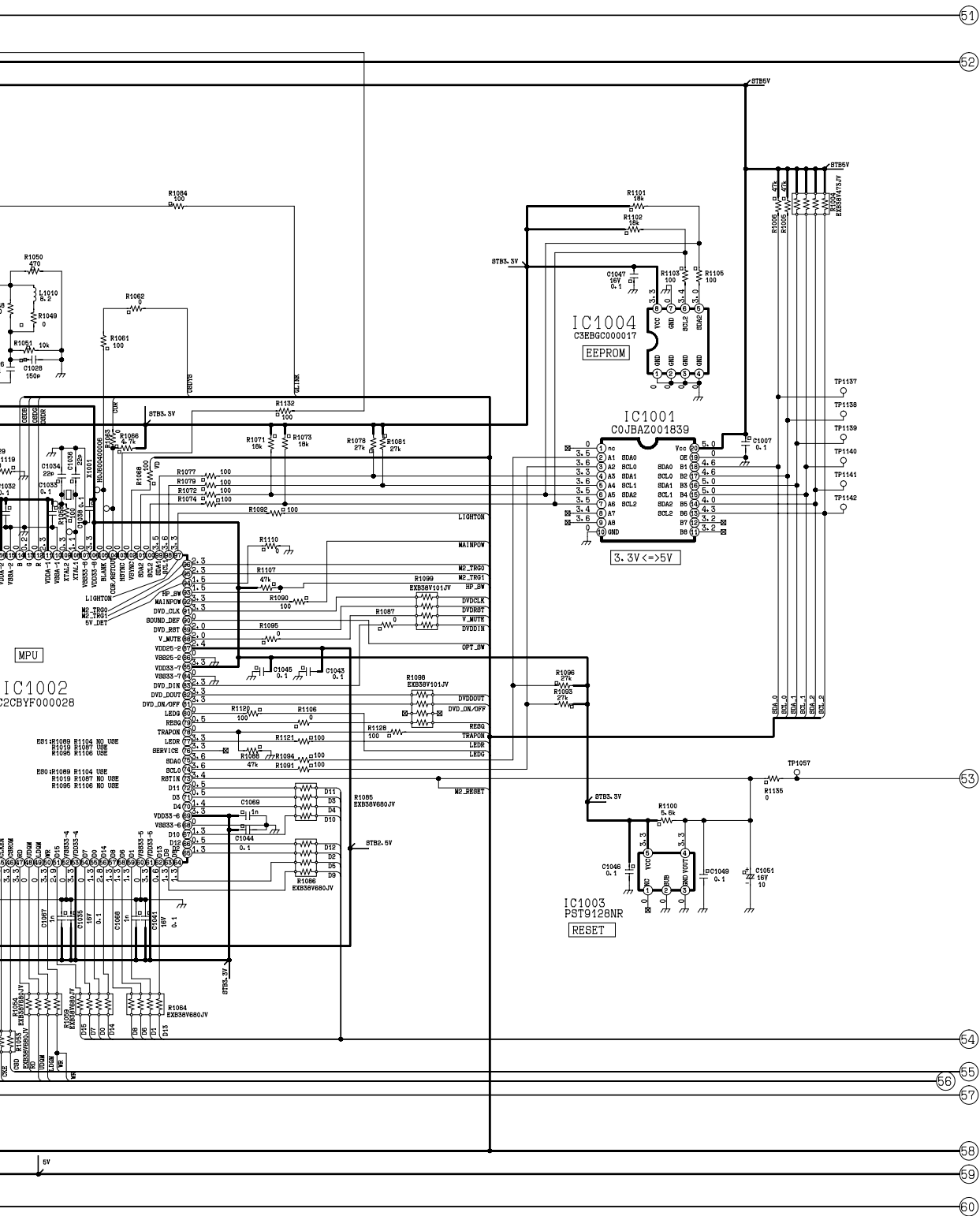
26

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TX-15LV1
DG-Board (4 of 7) Schematic Diagram

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32

33

34



➡ VIDEO SIGNAL

A horizontal number line with tick marks at every integer from 35 to 39. The numbers 35, 36, 37, 38, and 39 are labeled below the line.



⇒ AUDIO SIGNAL
⇒ VIDEO SIGNAL

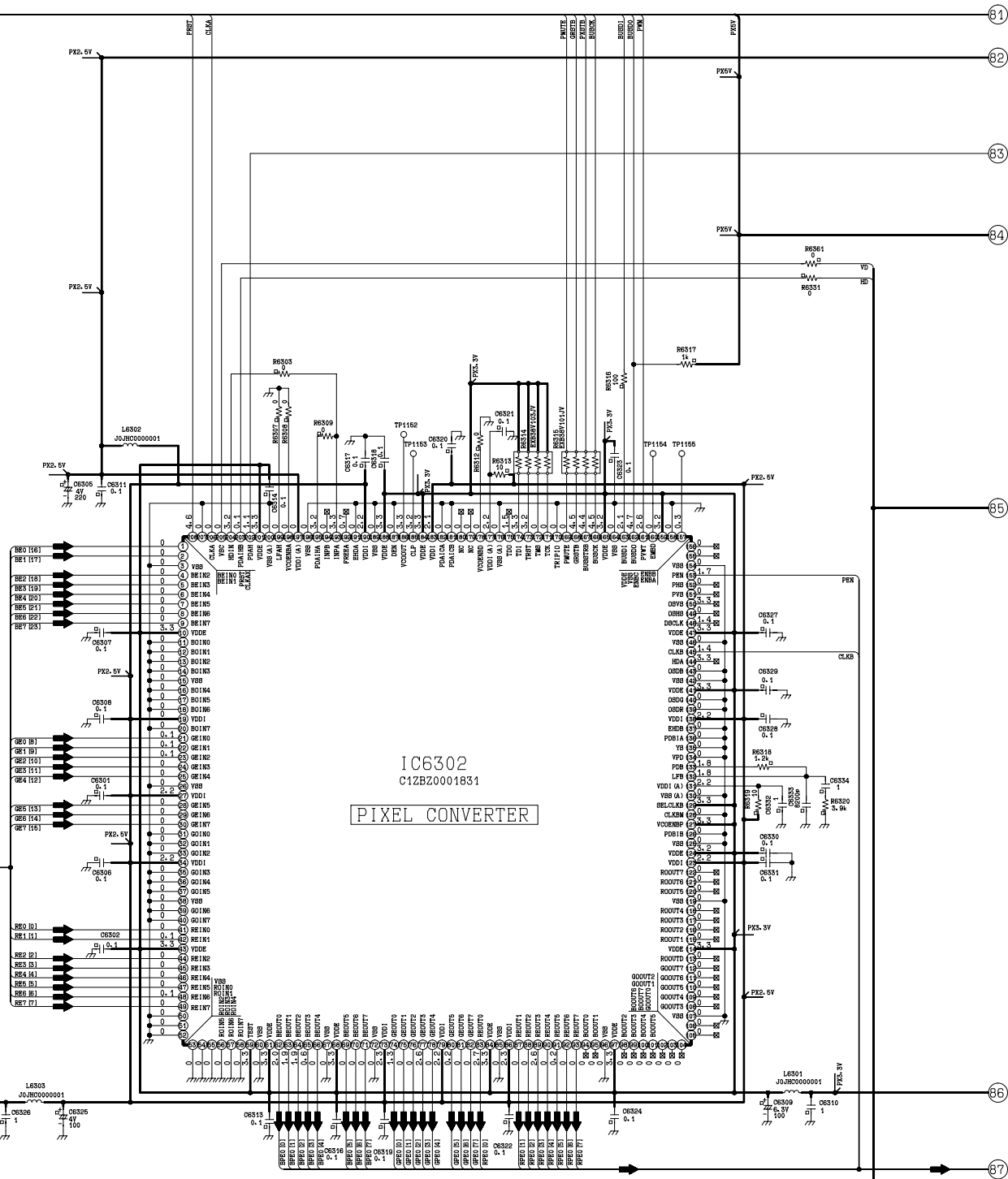
43

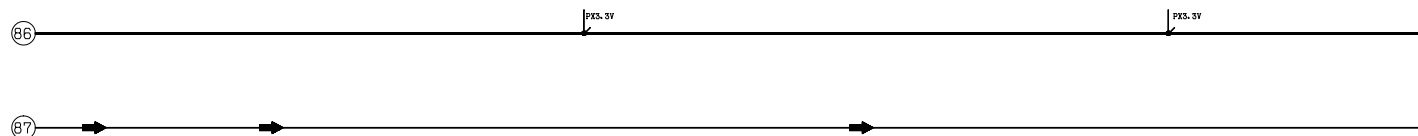
44

45

46

47





⇒ AUDIO SIGNAL
⇒ VIDEO SIGNAL

A horizontal number line with four major tick marks labeled 52, 53, 54, and 55. There are also minor tick marks between each major tick mark, dividing each unit into two equal parts.





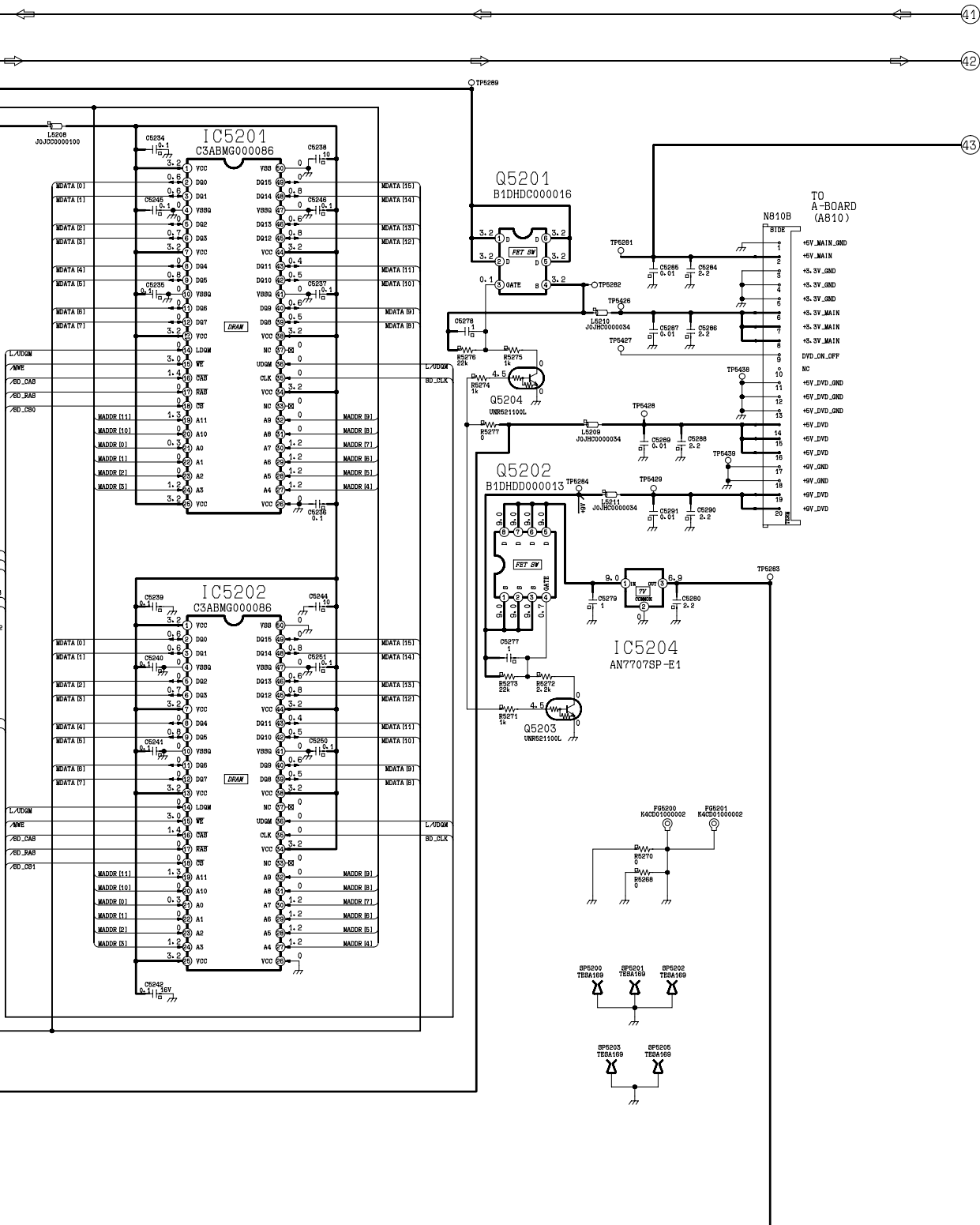
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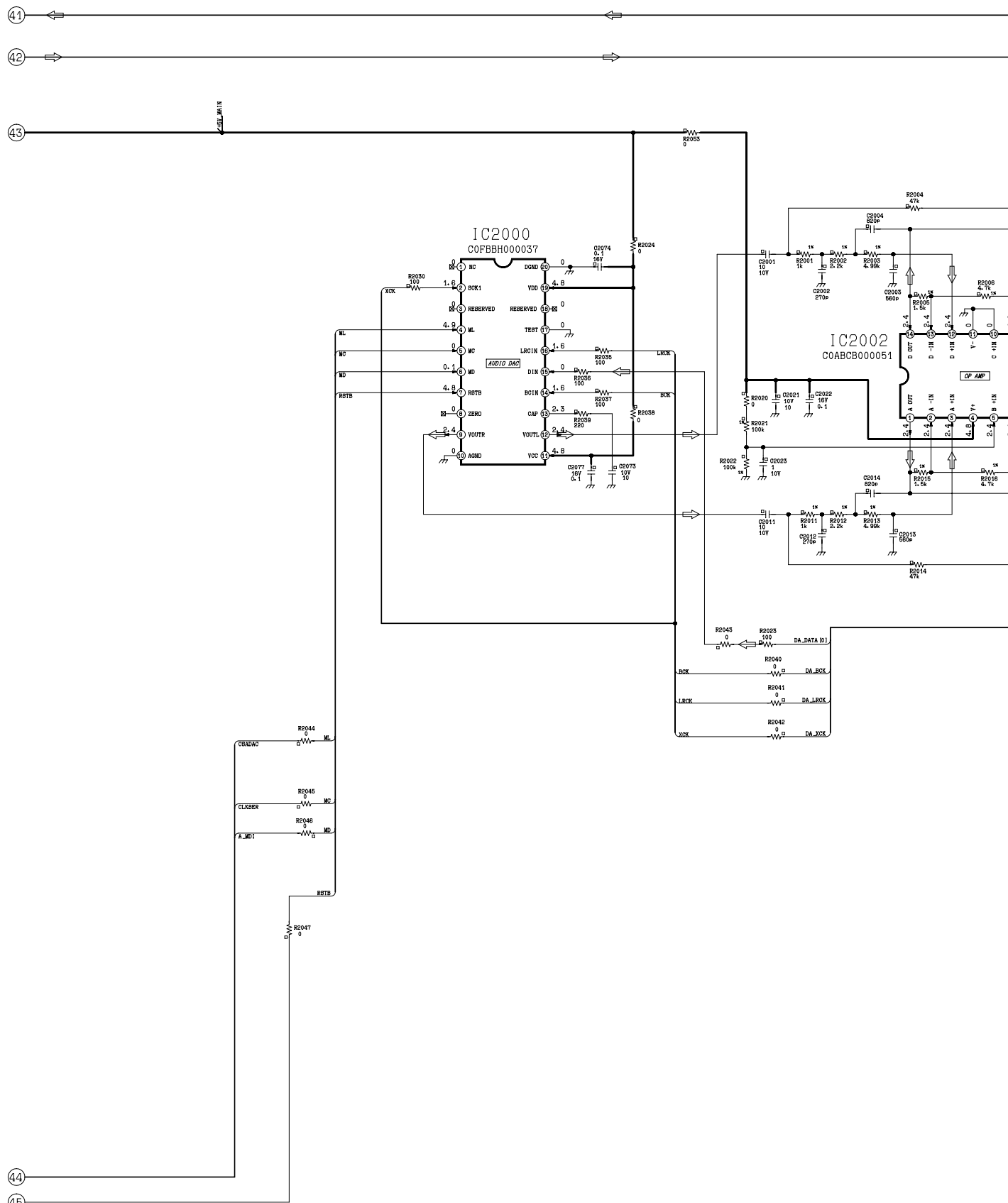


22



TX-15LV1
MP-Board (3 of 4) Schematic Diagram

13.18. MP-Board (4 of 4) Schematic Diagram



TX-15LV1
MP-Board (4 of 4) Schematic Diagram

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⇒ AUDIO SIGNAL
➡ VIDEO SIGNAL

➡ VIDEO SIGNAL

